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AUGUST 31, 1918.

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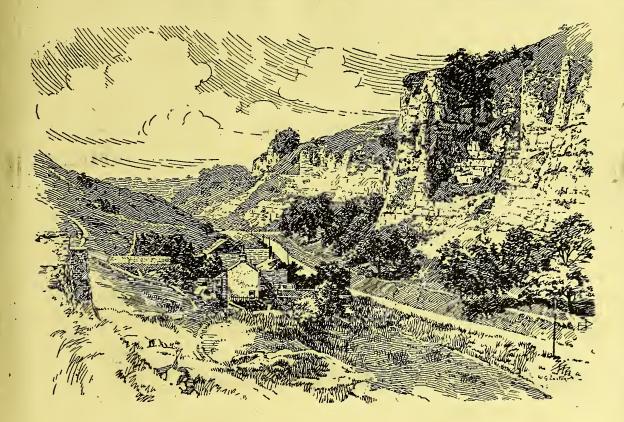
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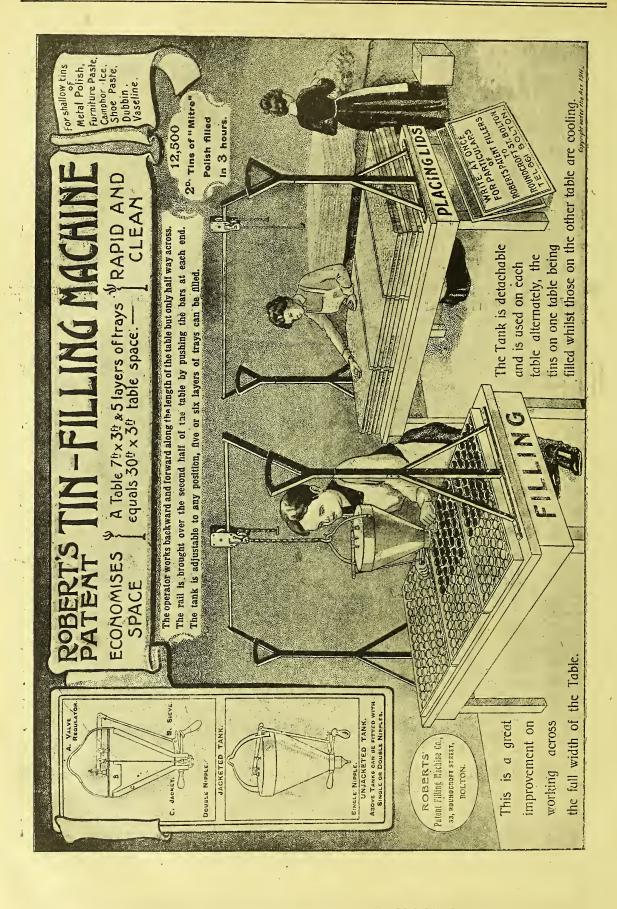
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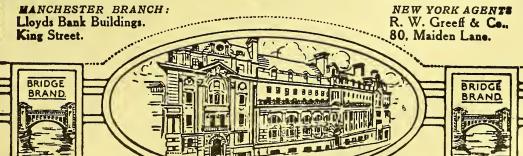
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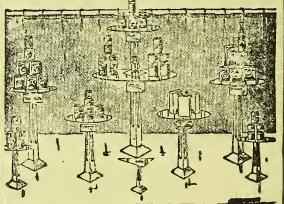


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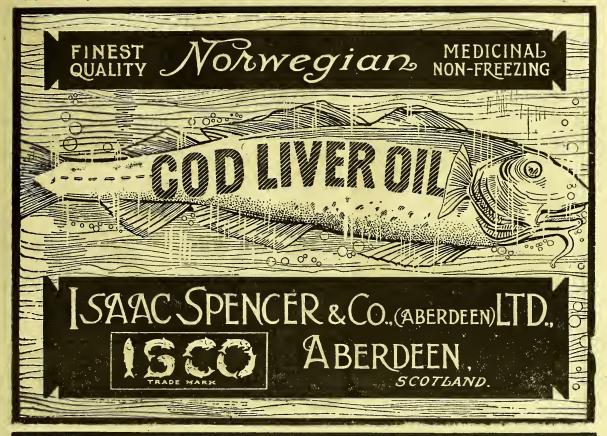


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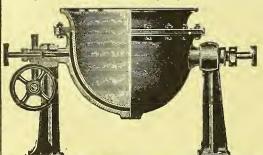
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NUMBER 359

AUG. 31, 1918



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2/6		2/3	•••	15/-	discount
3/6	•••	3/3	•••	21/-)	

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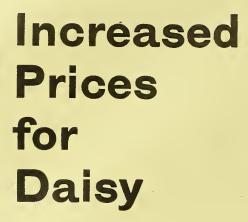
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See our Advertisements

in Daily Mail, John Bull, Punch, British Weekly, Passing Show, Daily Dispatch, People's Friend, Glassow Herald, Daily Chronicle, Sketch, Home Notes, Nursing Mirror, Coming Fashions, Sunday at Home, etc. In every leading publication you will find MILTON.





Owing to the greatly increased cost of production, we regret we are compelled to increase the price of Daisy as follows:

RETAIL.

Single Powders		•••	$1\frac{1}{2}$ d. each
Packets of 10 Powders	•••	•••	10 ½d.
Packets of 20 Powders	•••		1/6

WHOLESALE PRICES.

1/6	size (la	ate 1/	1½d.	size),	cont	tainin	g 20	Po	wdea	.s
1	dozen	Boxe	s			. 1	5/9	per	doze	n
3	dozen	Boxe	s			. 1	5 /-	,,		
101	d. size	(late	7½d.	size),	cont	tainin	g 10	Po	wder	's
1	dozen	Boxe	s				9/-	per	doze	n
3	dozen	Boxe	s				8/6			

The above prices are subject to 5% discount for cash. All orders sent carriage paid. The new prices allow the same generous proportion of profit as hitherto; each individual sale will, however, bring 50% more actual profit. Daisy is now, therefore, even more profitable than ever.

From all Wholesalers, or direct

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SIGNS of the coming eclipse were observed as early as 1900 and 1901 when pilocarpine, atropine, eserine and their salts were manufactured at 'Wellcome' Chemical Works, England.

The total phase here indicated commenced with the outbreak of war, and is visible, more or less, all over the world.

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THE BRITSH DRUG HOUSES



EASTERN FOAM

The volume of orders received in response to our announcements has been overwhelming. The indulgence of our customers is requested during the time which must elapse before deliveries can be completed.

The output at present is restricted largely by the lack of sufficient supplies of glassware. Pharmacists can assist us, and consequently themselves, by encouraging the public to return all empty pots, which can be sent to us with other empties and are allowed for at the rate of 1s. 6d. per dozen, if received complete and in good condition. For the pots alone, without fittings, 1s. od. per dozen is allowed.

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The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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"C. & D. DIARY," 1919.—Our annual Diary, which will be in the same form as the last issue, has, in eon-sequence of war conditions, to go to press somewhat early, and the work of revision is already in hand. We shall reserve space for the registration of formulas for "known, admitted, and approved" remedies. Our Diary was the first book of the kind which the Revenue authorities accepted as an approved book of reference. The space reserved in the 1919 Diary for such formulas will be limited, so that true copies of them, with doses or other directions for use, should be sent to the Editor C. & D., 42 Cannon Street, London, E.C., as promptly as possible. London, E.C., as promptly as possible.

Mr. H. Amon chemist and druggist, has acquired the business of Mr. S. Summers, Ph.C., Streatham High Road, London, S.W.

London, S.W.

Mr. F. Goldby, Ph.C., Enfield Town, is closing his pharmacy, which he has carried on for twenty-two years, owing to inability to seeure a renewal of the lease. He hopes to arrange for the continuance of his x-ray work.

UNITED ARTS RIFLES, "B" Company (Pharmacists).—September 1, at 10 a.m., company parade at headquarters—Imperial College Union, South Kensington, S.W. On September 4 and 5, platoon parades at 3 p.m.

ACETIC ACID AND ACETONE FROM CARBIDE.—One of the results of the war economy in Germany has been the manufacture of acetic acid and acetone from calcium caroide on a large scale. The Dr. Alexander Wacker Co. is the chief producer. In the last pre-war year the consumption of acetic acid for technical purposes in Germany comprised nearly one-half of the total amount produced—viz., 15,000 tons, as compared with 16,000 of ordinary vinegar for human consumption.

European War News.

Import and Export Notices.

The Far East.—The Director of the War Trade Department gives notice that in viev of the situation in regard to tonnage it will be necessary in future to restrict eon-siderably the issue of licences for the transhipment of goods imported into the United Kingdom, more particularly from the Far East. Applications for licences in respect of conthe Far East. Applications for licences in respect of consignments already affoat to the United Kingdom will receive as favourable consideration as possible, but immediate steps should be taken by importers to prevent any consignments which have not actually left the country of origin from being shipped until the War Trade Department has been consulted as to whether it is probable that facilities will be granted for the transhipment of the goods on their arrival in this country.

Personalia.

SERGEANT JOHN COULTER has been wounded in action. Prior to joining the Army he was an assistant with Mr. S. Riley, chemist and druggist, Church Street, Flint. CORPORAL H. V. WOODS, Royal Fusiliers, who has been missing since April 8, is a prisoner of war in Germany. In civil life he was with Mr. W. Massey, ehemist and druggist, High Street, Guildford.

SECOND-LIEUTENANT FRANK HODKINSON, R.E., has been awarded the Military Cross for conspicuous gallantry in the field. Prior to joining the Forces in the early days of the war Second-Lieutenant Hodkinson served his apprendictable with Divilian & Son Ltd. chemists Wigan Ho ticeship with Phillips & Son, Ltd., chemists, Wigan. He

ticeship with Phillips & Son, Ltd., chemists, Wigan. He is twenty-three years of age.

PRIVATE JOHN CLEGG FISK, Australian Imperial Forces, was severely wounded in action on August 8, and is now in hospital in the Midlands. Private Fisk, who is the son of Mr. S. J. Fisk, pharmacist (for many

years in business in Maida Vale, London, W., and now retired), was origin-ally intended for things pharmaceutical; but his tastes inclined to outdoor pursuits, and seven years ago he went to Australia to learn farming. When the war broke out he volunteered for active ser-vice, and joined the Aus-tralian Forces at Sydney. Although not yet twenty-three years of age, he has seen considerable active service, having been four times wounded and once "blown up" in action. On one of these occasions he was confined to hospital



PRIVATE J. C. FISK.

for several weeks. His present injuries include a shattered left arm, which, it is feared, will result in amputation. Mr. Fisk's many friends in the world of pharmacy will no doubt extend their sympathies and hopes for as complete a recovery as may reasonably be expected.

THE FOLLOWING CASUALTIES are reported in connection with soldiers who till their enlistment were with Thomas McMullan & Co., wholesale druggists, Ann Street, Belfast: Sergeant J. McFarland, Hussars, and Private Edward Martin, Royal Scots, both severely wounded.

Miscellaneous.

The Deserted Pharmacy.—A military correspondent (161/30) writes "Duty took me through a fair-sized city on the Western Front. . . The city is now one of ruin and desolation, and military units require a pass to use its shell-battered streets and roads. During one of these necessary 'trips' I observed a pharmacy, a little two-windowed shop. The plate-glass of one window was entirely absent—not a fragment remained attached to the frame. I got inside the window and viewed the interior: a carboy lay smashed to fragments on the shop-floor; apart from that the shop was in good condition. A prescription-book lay open on the desk, with the prescriptions written in French. Two small Perrier bottles containing a yellow-coloured mixture awaited someone—who would never call or the ledge near the shop-rounds. The stock bottles were untouched, the general appearance of the shop giving the impression that the pharmacist had been forced to make a hasty retreat. Shortly I was forced to make one too, the explosion of a shell some yards away inducing a quick decision."

Military Tribunals' Decisions.

SINCE OUR LAST REPORT the following decisions have been notified:

ABERYSTWYTH.—Mr. S. D. Doughton, chemist and druggist, was exempted to February 15, 1919.

AMERSHAM.—Mr. A. M. Kennard, chemist and druggist, was exempted for three months.

Barnes.—The two months granted to Mr. P. N. Turner (C. & D., August 24, p. 34) was a temporary exemption pending negotiations between the county N.S.R. and the Surrey Insurance Committee.

BATH.—The appeal of Mr. F. E. Cooper, chemist and druggist, against a calling-up decision was dismissed, appellant not to be available until September 23. Applications to have the case argued on the ground of hardship and for permission to appeal to the Central Appeal Tribunal

were dismissed.

Calne.—Mr. W. J. Peacock, chemist and druggist, was exempted to November 15.

exempted to November 15.

CHESTERFIELD.—The appeal of Mr. J. B. Wannop, assistant with Hulme's, chemist, was disallewed.

DAWLISH.—Mr. S. R. Davis, chemist and druggist, applied for an extension of time from the date previously fixed for joining up (September 7), and was granted to October 1. Mr. G. R. Priddey, chemist and druggist, Mr. Davis', substitute, was conditionally exempted.

October 1. Mr. G. R. Priddey, chemist and druggist, Mr. Davis's substitute, was conditionally exempted.

HULL.—Mr. R. F. Jones, chemist and druggist, was temporarily exempted for six months, with Volunteer condition. It was urged on his behalf that it was physically impossible for him to perform Volunteer service, as he had charge of a doctor's dispensing in addition to his own, which included National Insurance work. The N.S.R. replied that "the new memorandum" simply stated that representations had been made as to the special nature of pharmacists' work and the inappropriateness of their being required to undertake Volunteer duties. It was therefore, he contended, still within the Tribunal's province to impose the obligation. The Tribunal took this view, and declined The Tribunal took this view, and declined the obligation.

to vary their decision.

SOUTHPORT.—The decision given by the Tribunal on June 27 (C. & D.-July 6, p. 34) in the case of Mr. J. Layland, chemist and druggist, manager to Boots, Ltd., had a sequel at the Southport Police Court on August 21, when Mr. Layland was charged with being an absentee. He pleaded not guilty. The case for the prosecution having been opened by a statement on the part of the N.S.R. similar to that made at the Tribunal hearing, Mr. Huntsman, for to that made at the Tribunal hearing, Mr. Huntsman, for the defence, said the case was important to Messis: Boots, because, that being the first in their experience, it might arise anywhere in their 500 or 600 shops. They therefore suggested to Mr. Layland that he should technically fail to respond to his calling-up notice in order that the question of the appropriate Tribunal should be formally and finally settled. The only question was whether that certificate was cancelled by what in the regulations was called the appropriate Tribunal. If the cancellation was effected by any Tribunal which did not, according to the regulations, answer that description, then the original condition of exemption remained as it was, and the defendant was not even technically an absentee. After an analysis of the clause in the regulation bearing on the question, Mr. not even technically an absentee. After an analysis of the clause in the regulation bearing on the question, Mr. Huntsman drew the conclusion that the Tribunal which originally adjudicated (Nottingham) was the appropriate Tribunal to take the case subsequently. It was as a dispenser that Mr. Layland's certificate was granted, and he (Mr. Huntsman) contended that he did not come within the exception, which clearly contemplated the mere seller. the exception, which clearly contemplated the mere seller. In fact, the point was that a chemist was not a seller of goods by retail within the meaning of that clause. Mr. Layland then gave evidence, and the N.S.R. replied to the effect that in his opinion the defendant was not in a certified occupation. The Bench took the same view, and imposed a fine of 2L. at the same time expressing the opinion that the Southport Tribunal was not the appropriate one to deal with the N.S.R.'s application. Mr. Huntsman asked for time to consider whether an appeal would be entered. Mr. Layland, meanwhile, gave an undertaking to place himself at the disposal of the authorities when called upon.

Stamford,—On appeal, the exemption held by Mr. S.

STAMFORD.—On appeal, the exemption held by Mr. S. Brown, assistant with Mrs. Dickinson chemist, was can-

Ventnor,—The N.S.R.'s appeal against the exemption granted to Messrs. O. E. Hickson and H. L. Warne, chemists and druggists (C. & D., August 3, p. 34), was discipated to Messrs.

WINDERMERE.—Mr. D. A. T. Dunlop, chemist and druggist, was exempted for six months.

Destroying Lice.

It is now established that lice transmit trench fever, and the problem of preventing the wastage from this disease resolves itself into methods of checking lousiness in the Army. "Nature" publishes the following summary of work that has been done in dealing with body vermin:

Three varieties of lice attack man; two of these, Phthirus pubis and Pediculus humanus (capitis), are associated with hair, and the third, Pediculus corporis, with clothing, the hair, and the third, Peateutus corports, with clothing, the body hairs serving as an occasional and final stronghold for the species. By close clipping of all hair at regular intervals the two first-named species may be finally disposed of, but the more difficult problem of dealing with clothing and bedding infected with Pediculus corporis remains to be dealt with.

Heat is still by far the most effectual and economical method of ridding infected fabrics of lice. An exposure for twenty minutes to 55° C. (131° F.) is sufficient under practical conditions, provided bundling is not resorted to. Three methods of utilising heat are applicable:

Dry heat is the easiest, simplest, and most economical.

Steam requires a more elaborate and expensive equipment, with a higher working cost; it is impracticable to work with it at temperatures below 65° to 70° C. In the ease of bundled articles the temperature for both methods should exceed 100° C. Hot water is applicable to undergarments only, and does not require any chemical addition provided its quantity and temperature are adequate to the

garments only, and does not require any chemical addition, provided its quantity and temperature are adequate to the bulk of the garments dipped.

VAPOUR.—Sulphur dioxide (SO₂), as supplied by the Clayton gas apparatus, is expensive, both as regards plant and working cost, slow in action, and needs skilled management to maintain the necessary concentration, while even in experienced hands it may allow of the survival of a small percentage of nits. Hydrocyanic-acid gas is dangerous to generate, and its use, except with skilled management, is to be deprecated; its effect on lice and nits appears to be slow, but has not been adequately determined.

The vapours of volatile fluids or substances, such as ben-

The vapours of volatile fluids or substances, such as benzene, xylol, petrol, etc., may be employed if airtight containers are available; that of naphthalene is also applicable

for use by this method.

FLUIDS.—Light oils, such as kerosene, give fairly trust-worthy results if the period of immersion is long enough, and if their efficacy against nits is aided by the addition of a small percentage of some essential oil, such as oil of sassafras. More volatile fluids are effective against active lice, but may fail against nits if the period of immersion is short. The most trustworthy and generally serviceable short. The most trustworthy and generally serviceable fluids to use for the destruction of nits in clothing would seem to be emulsions in water of soap and crude carbolic acid, cresol, tar or wood oils, which readily destroy both active lice and their nits. The strength of the solution and period of exposure are interrelated factors—five minutes' immersion in 2-per-cent. lysol being adequate, provided the temperature of the solution is above 5° C. The impregnation of undergarments with such solutions offers a hopeful chance of aiding any general scheme by coping with the chance of aiding any general scheme by coping with the difficulty of dealing with the front line and special posts, which form the main sources of the infection of clean troops. Up to the present, however, the experiments in the field, which are necessary before a final decision on the value of this process can be arrived at, have not been carried out by the authorities. carried out by the authorities.

Finally, there is the personal use of insecticidal preparations as aids to the primitive method of getting rid of these pests—now referred to as "chat" hunting. To be of ser-vice the preparation should be of quick action and easy of vice the preparation should be of quick action and easy of application to clothing, and its issue should be as general and comprehensive as that of food. Preparations in the form of pastes are more economical and convenient than powders: fluids are out of the question. Crude "unwhizzed" naphthalene, produced by coke-oven plants, affords the most effective base, and may be conveniently mixed into paste form by the addition of soft soap or some grease, such as vaseline, in the proportion of 10 to 20 per cent. It is suitable only for clothing, and should not be employed on the skin. When it is necessary to use an antilice preparation on a hair-clad surface, the use of vaseline, to which has been added ½ per cent. of veratrine dissolved in 5 per cent. of benzene, may be recommended.

MAKING OUR FLESH CREEP.—The "Daily News." giving a horrifving list of foreign substances (including lysol) found in Leipzig bread, states: "The bread of one large bakery unaccountably contained about 13 per cent. of copper in the form of verdigris." It is now clear why copper is scarce in Germany and bread unwholesome.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Contracts.

The following Government contracts were notified during

July:
WAR OFFICE.—Bacteriological Apparatus.—Baird & Tat-July:

War Office.—Bacteriological Apparatus.—Baird & Tatlock (London), Ltd. Candles.—Price's Patent Candle Co., Ltd. Crucibles.—Fletcher, Russell & Co., Ltd. Dental Outfits.—C. Ash, Sons & Co., Ltd.; Dental Manufacturing Co., Ltd. Fly-catchers.—Extirmo, Ltd. Medicincs.—Johnson & Sons (Manufacturing Chemists), Ltd. Medical Companions.—Hunt & Co., Ltd.; W. H. Sharp & Sons. Methylated Spirit.—Sutton, Carden & Co., Ltd. Paraffin Wax.—Pumpherston Oil Co., Ltd. Photographic Stores.—Kodak Ltd.; Paget Prize Plate Co., Ltd.; Parkinson & W. & B. Cowan, Ltd.; Williamson Kinematograph Co., Ltd. Soap.—J. R. Peace & Co.; J. Watson & Sons, Ltd. Surgical Materials.—C. Ash, Sons & Co., Ltd.; British Rubber Manufacturers, Ltd.; Burroughs Wellcome & Co.; J. Bury & Co., Ltd.; Coxeter & Son; Cuxson, Gerrard & Co., Ltd.; Dental Manufacturing Co., Ltd.; Dunlop Rubber Co.; J. G. Franklin & Sons, Ltd.; E. H. Hallam & Son, Ltd.; J. L. Hancock; S. Maw, Son & Sons, Ltd.; Southall Bros. & Barelay, Ltd.; Springfield Spinning Co. (Belfast), Ltd.; Vernon & Co., Ltd. Viscose Solution.—Viscose Development Co., Ltd. X-ray Apparatus.—Johnson & Sons (Manufacturing Chemists), Ltd.

H.M. Office of Works.—Soap.—Hull Chemical Works Co.

India Green Crucibles.—Morgan Crucible Co., Ltd.

INDIA OFFICE.—Crucibles.—Morgan Crucible Co., Ltd. The following tenders have been accepted by the bodies

Darlington Town Council.-Parkin, Ness & Co., dis-

infectants. Manchester City Council.-United Alkali Co., Ltd., caustic soda.

Birmingham.

Most of the local candidates at the recent Apothecaries' Assistants' examination were trained in the principal hospitals of the city.

It is suggested that the offer at flower-shows of substantial prizes for specimens of honey would stimulate the home production of this useful article.

An outbreak of fire on the premises of W. Canning & Co., manufacturing chemists, on August 23, is reported to have caused damage to the extent of 20,000l.

Pharmacists' windows are displaying face-beautifiers and similar things appealing to femininity, it being understood that local ladies are "flush" of money just now.

"Dental Operator Mechanic," advertising in the "Birmingham Mail," states that he "has cleared thousands of mouths at one operation." A superman of dentistry,

Cocoa-butter is on sale here in high-class cafés, and a slab of it was on show the other day in a window where it eaught the full blaze of the mid-day sun. Strange to say, it seemed to stand the ordeal well.

The Dunlop Co., Aston Cross, held a flower and vegetable-show recently, when Mr. R. W. Butcher (of their laboratory) showed ninety varieties of locally grown wild flowers, all named and arranged.

Dummy packages-ever the salvation of the shop-window have greatly increased in number in these times, and much entertainment is to be had by studying the fearful and wonderful devices in some of the windows—especially those of confectioners.

The proprietor of a suburban pharmacy has, after a spell of ill health, been compelled to close his establishment for a fortnight in order to take a much-needed rest. (He has decided that National Insurance dispensing is not profitable enough, and has given it up.) Some other traders have closed for a week—the only price at which, for them, a holiday can be had.

Liverpool

Happily, Dr. Symes has not suffered any further effects from his alarming accident (C. & D., August 24, p. 34).

Clay & Abraham, Ltd., have been deprived of all their male assistants save one, who alternates between Bold Street and Castle Street.

The War Emergency Benevolent Fund formed the chief item on the agenda of the Liverpool Chemists' Association Council-meeting this week.

Mr. Harry Wilson, Ph.C., F.I.C. (Randall & Son, Ltd., Southampton), passed through Liverpool this week en route for Southport, where he is spending a short holiday.

A well-known drug-traveller has failed to earn the 51. offered him, a few weeks ago, by a local firm as a premium for obtaining an assistant to fill an enforced vacancy.

The name of Mr. George Inman, Dale Street, should have appeared in the account of the promotion of Captain Farthing in the C. & D. of August 17 (p. 33). The name was there misprinted.

The girl-telephonist who takes duty with a firm of whole-sale chemists finds her work cut out, and is allowed a percentage of "howlers." Among the items recently handed over to the town-delivery department at a Hanover Street house were "synthetic mucks" and "six inches distilled water."

Mr. James Righton, the veteran Southport chemist and Mr. James Righton, the veteran Southport Chemist and druggist, has been instrumental in placing the case for pharmacists before the local Military Tribunal, whose compliments he has received. Mr. Righton has for many years worked strenuously in the interests of pharmacy. His son, Mr. James Herbert Righton, chemist and druggist, is serving with the Colours.

Sheffield.

There has been a great falling-off in National Insurance dispensing since the influenza subsided.

Copies of the local National Insurance Formulary, in an improved binding, are on sale at the Norfolk Street office.

The sending-out of the restrictions-on-poison-sales pamphlet referred to last week (C. & D., August 24, p. 34) has already proved quite a success, more copies having been asked for.

That confusion of thought concerning more than one phase of the military-service question exists is evidenced by a recent letter in the local Press, over the signature "Pro Patria," charging the Joint Committee with a lack of common sense. This correspondent manifestly fails to grasp the fact that the latest demand for men comes from a higher authority than the local Committee.

Miscellaneous.

HELPING THE WOUNDED.—The Great Northern Central Hospital, London, N., has received from the staff of the Argentine estates of Bovril, Ltd., a remittance of 391. for the maintenance of the Santa Elena bed in the hospital's military

Fumes Empty a Shop.—During business hours at the shop of C. A. Critchley & Co., King William Street, Blackburn, on August 24, an assistant accidentally broke a large bottle containing strong solution of ammonia. The fumes resulted in the large number of people in the shop having to make a hurried exit into the street, and customers were unable to enter the premises for about an hour.

PHARMACEUTICAL REFORM.—At a meeting of the Pharmaceutical Reform Committee, held at the Progressive Pharmaceutical Reform Committee, held at the Progressive Pharmaceutical Reform Committee, held at the Progressive Pharmaceutical Reform Committee and the Pharmaceutical Reform Committee and the Pharmaceutical Reformaceutical Refor

ceutical Keform Committee, held at the Progressive Pharmacy Club on August 21, the following resolution was proposed, seconded, and carried unanimously:

That the Pharmaceutical Reform Committee favour a start being made in the Federation of the Pharmaceutical Committees grouped in suitable districts for the purpose of electing an efficient Executive.

efficient Executive.

AGED FORESTERS ON THE PANEL.—As the result of negotiations between the Salford Panel and Pharmaceutical Committees and the Manchester District of the Ancient Order of Foresters respecting the provision of medical treatment for the agcd and disabled members of this Society resident in Salford, an agreement has been arrived at whereby the Society will pay the Panel Committee 8s. 6d. per member per annum. The Panel Committee will pay to pharmacists a sum not exceeding 2s. a head for the cost of medicines and medical appliances. Should the accounts amount to more than 2s. a head, the Society will be responsible for the difference. Messrs, W. F. Cuttiford and E. H. Simmons have acted on behalf of the Pharmaceutical Committee.

IN THE COURTS.—At the Mansion House Police Court,

have acted on behalf of the Pharmaeeutical Committee.

IN THE COURTS.—At the Mansion House Police Court, London, on August 22, Frederick Seaton Snowden, Howletts Farm, Edenbridge, pleaded guilty to a charge of obtaining by means of false pretences two cheques for 425l. and 371l. 9s. 8d. respectively, the property of his employers, Borax Consolidated, Ltd. Eastcheap, E.C. It was styted that the accused had been with the firm for twelve years, and that his salary was 280l. per annum. He was sentenced to six months in the second division.—At Marlborough Street Police Court, London, on August 27, Joseph May, Howland Street, W., was fined 5l. for causing a mare affected with parasitic mange to be driven on a public highway, and 2l. for failing to notify the disease.

Poiscnings.—An inquiry into the death of Mr. William

Poiscnings.—An inquiry into the death of Mr. William Gibson, jun. (36), a partner in a London firm of shipping merchants, was concluded at Marylebone on August 23,

when Dr. Spilsbury stated that death was due to asphyxia when Dr. Spilsbury stated that death was due to asphyxia from regurgitation while sleeping and when suffering from opium poisoniug. Mr. John Webster, pathological chemist to St. Mary's Hospital and assistant analyst to the Home Ciffice, who had made an analysis, said he found the equivalent of 14 grains of opium. Ten grains of opium or the equivalent, 1 grain of morphine, would be fatal to an adult. In reply to the Coroner, he said he believed it was common knowledge that there were opium-dens in the East-end, but he did not know how they managed to get large qualknowledge that there were opium-dens in the East-end, but he did not know how they managed to get large quautities of opium, which was a poison under the Pharmacy Act, and only supposed to be saleable under restriction. After reading extracts from the Defence of the Realm Regulations, the Coroner said that efforts had been made to find out who sold the opium to Mr. Gibson, but they were unsuccessful. A verdict of "Death by misadventure" was returned.—A similar verdict was returned at a St. Pancras inquest, on August 23, in the case of Miss Florence Ann Padock, lately residing in Queen's Road, St. John's Wood, London, N.W. Dr. Elizabeth Bone, Porchester Terrace, stated that the deceased professed to have taken as much as 40 gr. of morphiue a day in addition to two bottles of whisky. Further evidence showed that degeneration had taken place in the blood-vessels of the brain, resulting in hæmorrhage.—Louisa Kennell, who had kept a shop at Deptford, committed suicide with spirit of salt.

Scottish News.

Brevities.

Apprentices in Scotland are being offered from 10s. to 15s. a week. The salaries of qualified pharmacists range from 4l. to 6l. a week.

Damage estimated at upwards of 60,000% was caused on August 20 by an outbreak of fire at the works of Cross's Chemical Co., Ltd., Falkirk.

"Mr. Eucalyptus, a chemist in the North," writes a correspondent, "had a brief visit the other day from a traveller whom he has never seen before and does not greatly desire to interview again. The visitor's remarks were mostly of a cryptic description. "Well," said he, when the chemist shook his head in a defensive fashion, 'the only other thing I've got to offer is an extra-strong mint. But,' he added cautiously, 'they're not what you'd call yery strong."" call very strong.

"Ayrshire as a holiday-resort," writes a subscriber, "grows more popular year by year, the present season beating all past records. Chemists in the various towns report good business. The two Prestwick chemists display an appropriate assortment of holiday requisites. Mr. R. Stevenson has a show of Rexall preparations backed with his own 'Skin Cream' soap A showcard advertising saccharin tablets has a forward position in the window. Mr. James Teunion displays sponges, soaps, perfume, and saccharin tablets (5d. per doz.). 'Milton' occupies a prominent position on a central shelf." "Ayrshire as a holiday-resort," writes a subscriber,

Edinburgh.

A medico, who was rather given to prescribing commodities of enemy origin in the past, says that helmitol is the only one he intends remembering. Why?

A chemist had an inquiry from a W.A.A.C. officer the other day for compound phenacetin tablets. After a moment's thought he decided that he was "out of stock."

Flight-Sergeant J. Jardine, R.A.F., who has been transferred from the Royal Eugineers after several months' service in France, was prior to joining the Army, a dispenser in the Edinburgh Royal Infirmary.

The device of dusting pastilles with sugar is useful, though sugar bought thus works out at about 2s. 6d. per lb. A local pharmacist collected several ounces from a pastilletin, and rubbed it down for an ingredient of pulv. infant.

The increased postal rates have no terrors for a pharmacist in one of the big cities. "I would rather spend sixpence on postage for an order," he says, "than attempt to telephone even one or two items to any wholesaler in this city." His experience is, perhaps, not uncommon.

Glasgow.

An exhibition of German samples of goods on sale in Balkan markets is being held in the Royal Technical College, and is creating a good deal of interest.

Mr. Cecil Henry Desch, D.Sc., F.I.C., "Graham Young" lecturer in metallurgical chemistry, Glasgow University, has been appointed Professor of Metallurgy in the Royal Technical College, Glasgow.

Irish News.

Brevities.

The chemists and druggists of Larne, co. Antrim, have greed to observe the following hours from September 1: Veekdays, except Saturdays, 9 A.M. to 8 P.M.; Saturdays, Weekdays, exce 9 A.M. to 9 P.M.

Owing to a strike of quay labourers Cork chemists are uow finding it almost impossible to secure the delivery of cross-Channel goods. Attempts to get delivery through Dublin proved expensive, and the delay did not justify the

Owing to railway restrictions chemists at South Irish seaside resorts have for the most part had a very dull season. However, there was a marked improvement during the month of August, and with continued fine weather this is likely to last until the end of September.

Mr. R. F. McCartney, Ph.C., Chairmau of the Coleraine Urban Council, was presented to the Lord-Lieutenant of Ireland last week, on the occasion of the Viceregal visit to Londonderry, when the Council presented a loyal address. The Londonderry County Council, of which Mr. J. E. O'Neill, druggist, Maghera, is Chairman, also presented an

At the recent Tipperary Show, Mr. Morgan M. D'Arcy, Ph.C., was awarded second prize in the driving competition for his pony Tipperary Beauty, and third prize for his pony Pink Pills. Last year Mr. D'Arcy secured first prize in the driving competition for Pink Pills. He has been a competitor for a quarter of a century, and his success is immensely nopular. immensely popular.

At the request of the Lord Mayor and Committee of the Uster Prisoners of War Fund, the Uster Drug Trado Association has joined in the movement to help the prisoners of war in Germany. The members have been asked to subscribe, ten shillings a month being the maximum; and already a good sum has been received. Mr. W. J. Rankin, Waring Street, Belfast, is acting as Hon. Treasurer. The wholesale druggists have subscribed 70% to the fund, which has already been sent in. has already been sent in.

Mr. A. W. Mann, Ph.C., Lurgan, has been actively engaged in raising funds for the Red Cross since the war started. A bazaar at Lurgan realised 1,100*L*, the entire secretarial work being done by Mr. Mann. Mrs. Mann takes a great interest in the work. Mr. Mann is also assistant organiser of a class for making metal and wood collists. The class is at present making splints and bedsplints. The class is at present making splints and bedrests, etc., for wounded soldiers. He also gives the entire proceeds of his weighing-machines to the Rexall War Fund.

Colonial and Foreign News.

Definition of "Perfumery."—The London office of the High Commissioner for the Commonwealth has received information from the Department of Trade and Customs, Melbourne, that the term "perfumery" in the Proclamation, some time ago, prohibiting the importation of various articles, applies to "articles essentially perfumes—e.g., sachets and non-spirituous scents (perfumed spirits are prohibited under a different heading of the Proclamation). Preparations such as face powders and creams, poinades, hair-lotions, dentifrices, and smelling-salts are not affected by the prohibition." by the prohibition.'

by the prohibition."

Chewing-gum Combine.—Leading manufacturers of chewing gum and representatives of allied trades in the United States have formed an Association known as "The National Association of Chewing-gum Manufacturers and Allied Trades." The object of the organisation is to co-operate with the Government during the period of the war in connection with the importation and distribution of the various year maturals that are used in the manufacture of chewing. raw materials that are used in the manufacture of chewing gum, as well as to conserve the industry, which yields a considerable revenue to the Government. There are said to be about 800,000 retailers of chewing gum in the U.S.A.

DRUG SHORTAGE IN TURKEY .-- A great shortage of drugs DRUG SHORTAGE IN TURKEY.—A great shortage of drugs and pharmaceutical preparations has resulted, on the Constantinople market, from the long duration of the war. Original stocks were consumed by the army demand, and transport and other difficulties render further imports almost impossible. Some drugs and chemicals are absolutely unobtainable, such as senna-leaves, quinine, glycerin, and sulphuric acid. The remaining drugs are very dear, and often not genuine. Turkey produces hardly any drugs or chemicals, but since the outbreak of war the preparation of quinine and iodine has been taken up, the products being, however, entirely consumed by the army. however, entirely consumed by the army.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

CONTEACT.—Johannesburg Municipal Council has accepted the tender of Hirsch, Loubser & Co. for disinfectant fluid for twelve months.

INCREASED IMPORTS.—During the three months ended March 31, 1918, the imports of drugs, chemicals, and apothecaries' ware into the Union of South Africa amounted to 268,3851., against 229,7081. for the corresponding period of 1917.

Business Changes.-Mr. J. W. Couldridge, chemist, Port Elizabeth, has opened a new establishment (his fourth) in Main Street.—G. S. Wilkins & Co., chemists and booksellers, Gwelo, Rhodesia, have sold their Selukwe business to Mr. Robert Hamilton.

PRICE-PROTECTION SKIT.—At a "court of injustice," which formed part of a performance in aid of the funds of the "Comrades of the Great War," at Johannesburg, Mr. Dinwoodie was fined 5l. for "selling asperins [sic] below the recognised price, thereby aspirin(g) to obtain the custom of the innecent sublic" the innocent public."

TALC-MANUFACTURES.—Slate-pencils, tailors' chalk, toilet-powders, cloth ball and powder for cleaning-purposes, and billiard-chalk are now being manufactured in the Union from talo mined in the Barberton district. Practically the whole of the Union requirements in many of these lines is now being supplied from local sources.

COLONIAL PHARMACY BOARD OF CAPE PROVINCE.—The half-yearly examination of the Board was held at 71 Parliament Street, Cape Town, on May 15 and 16. Seven candidates were entered, and six presented themselves. Four failed to satisfy the examiners, and two passed—viz., Messrs. M. Lewenson and L. Levinsohn. The examiners were Messrs. Walsh, Parry, Mager, Darroll, Cleghorn, and A. Mathew.

AMMONIA SULPHATE AND SULPHURIC ACID.—Over 250 tons of sulphate of ammonia per month is now being manufactured at Vryheid, and it is expected to increase the output tured at Vryheid, and it is expected to increase the output to at least 350 tons by the end of the current year. Anthracitic coal is being used, consequently there are no tarproducts of any importance. The same company is manufacturing sulphuric acid from pyrites obtained from the Rand. The plant, however, is not working up to its capacity of 400 tons per month. The company has not been able to dispose of any of the surplus sulphuric acid produced over and above its own requirements on account, it is alleged of the high freight rate, and also possibly it is alleged, of the high freight rate, and also possibly because it is a commercial acid as distinct from concentrated pure acid.

Natal Pharmaceutical Society.

The annual meeting was held in the rooms of Messrs. Stuart Jones & David Andersor, Ltd., Durban, on June 6. There were present Mr. E. Tyson (President) and Messrs. Firth, Anderson, Ball, Acton, M. W. Stranack, Cooper, Dunkerton, Gale, Jones, and the Hon. Secretary (A. M. Fyvie). A vote of condolence was passed to Mr. D. Watt upon the loss of his wife. The President then read the

following review: We are holding our annual meeting again under the shadow of the Great War. There is good reason to hope that, though ahead there appears the inevitableness of the very intensest fighting, hardship, and sacrifice, ere we meet for our next annual gathering the glad day of peace will have arrived. . . . The position re the proposed new Medical Dental and Pharmacy Act has advanced a little during the past twelve months. Prior to that it had passed its first and second readings in the Senate, and on the second reading had been referred to a Select Committee. Messrs. D. S. B. Anderson and Morris Stranack at the last annual meeting reported on their work as our delegates to Cape Town in connection with the measure, and on the evidence they gave before this Select Committee. The Bill as redratted by this Committee went again before the Senate and passed its third reading. It was fair to expect that it would have been considered by the House of Assembly in its first Session this year, but Parliament has been prorogued without the Bill being mentioned. Our Society received a letter from the Cape Pharmaceutical Society with regard to the protection of the title "chemist" in the Bill. This matter we fully discussed at our December though ahead there appears the inevitableness of the very

meeting, and it was decided to reply to the Cape Society recommending that we should be described as "pharmaceits or pharmaceutical chemists." The outstanding event of pharmaceutical interest during the year was the visit of over thirty pharmacists of the Australian Army Medical Corps. . . . In August last it was decided to take over from the late Durban Chemists' Association the work of collecting chemists' contributions to the Governor-General's Fund. Mr. J. W. Cooper and the Secretary were appointed a special Sub-Committee to deal with the matter. This Sub-Committee is acting most efficiently. In Mr. A. M. Tyvie the Society has an ideal Secretary and Treasurer. The thanks of the Society and the President are due to him for the zealous and able year's work he has done. During the year the Society has been strengthened by the addition of seven new members. To revert again to the war: We feel proud that pharmacy in Natal is actively represented to the extent that it is. Some of us feel as though we are behind prison bars, in that while the spirit in us would take us into active participation in the conflict, our duty appears to be to "carry on" here. All praise to our glorious fighters on land and sea, in the air, and under the sea, and to all who, though not fighting in the front rank, are assisting the front-rankers to fight by necessary service of the most varied kind in this the greatest of all wars. May their valour and their sacrifices soon be crowned with success and peace reign on earth.

The balance-sheet was then submitted by the Hon. Treasure. recommending that we should be described as "pharmacists or pharmaceutical chemists." The outstanding event

and peace reign on earth.

The balance-sheet was then submitted by the Hon. Treasurer and adopted. Mr. J. W. Cooper reported on the chemists' subscription-list to the Governor-General's Fund.

surer and adopted. Mr. J. W. Cooper reported on the chemists' subscription-list to the Governor-General's Fund. the sum of 263l. 19s. 6d. having been received and paid into the Fund. The election of office-bearers then took place, and resulted as follows:

President, Mr. J. W. Cooper; Vice-President, Mr. F. Firth; Committee, Messrs. Acton, Gale. Tyson, Wileman: Hon. Secretary and Treasurer, Mr. A. M. Fyvie; Auditors, Mr. H. Roadknight and Mr. E. B. Dunkerton.

On taking the chair as President, Mr. Cooper feelingly expressed his thanks to the members for the honour they had done him, and hoped that during his term of office he would fill the office in as creditable a manner as the retiring President. It was moved and seconded that Messrs. Stuart Jones & David Anderson, Ltd., be thanked by the Society for their courtesy in allowing the Society the use of their rooms. This was carried unanimously. Mr. G. H. Webster advised the Society of his removal from Dundee to Dannhauser. A letter from the Council of the Pharmaceutical Society of Australasia was read, in which the Council thanked the members of this Society for the kindness and generous hospitality shown to the Australian pharmacists who visited Durban in October of last year. A circular-letter from the Secretary of the Recruiting Conference at Cape Town was read, in which members of the Society were asked to give facilities, as far as they were able to members of their staff who wished Recruiting Conference at Cape Town was read, in which members of the Society were asked to give facilities, as far as they were able, to members of their staff who wished to join the Forces. Members were also asked to give Recruiting Committees permission to approach eligible men in their employ. After an interesting discussion, it was felt that although, owing to the scarcity of qualified men, it was practically impossible for the average pharmacist to leave his duties, it would be inadvisable to approach the Recruiting Committee in order to obtain special exemption. leave his duties, it would be inadvisable to approach the Recruiting Committee in order to obtain special exemption for chemists as a body, and that any action in this direction would have to be taken individually. A letter from the Professional Photographers' Association was read, taking exception to certain kinds of work said to be done by certain chemists—work which they claim encroaches on their business as professional photographers. It was decided that the matter was one in which the Society could take no action, and that the Photographers' Association be advised to take it up with the firms concerned. A tion be advised to take it up with the firms concerned. A communication was received from the Pharmaceutical Society of Cape Colony asking the Natal Society to coperate with them in a vigorous campaign against the employment by the Government and Provincial Councils of unqualified chemists. It was felt that, owing to the diffiunqualified chemists. It was felt that, owing to the difficulty all over the country in getting qualified men, the present was not an opportune time to take such action. It was proposed and seconded that the Committee be instructed to take such steps as they deem necessary to have the legal hours of opening shortened, and report to a further meeting. The Committee was also asked to go into the matter of the sphere of the Society and report at the next meeting. It was decided that the sum of 25l. be placed at interest, in the Natal Building Society.

meeting. It was decided that the sum of 25l. be placed at interest in the Natal Building Society.

The following new members were elected: Messrs. T. M. Allin, A. Hare, John Haig, W. T. Rvan, L. A. Ball, H. Berry, J. Gellatly, all of Durban; and Mr. R. F. Dobie,

of Greytown.

Legal Report.

Medicine-stamp Acts.—At Brentford Police Court on August 22, H. J. Martin, Elers Road, Ealing, was summoned by the Board of Customs and Excise for selling, in free instances, unstamped medicines without a licence. Mr. August 22, H. J. Martin, Elers Road, Ealing, was summoned by the Board of Customs and Excise for selling, in five instances, unstamped medicines without a licence. Mr. Dart prosecuted, and Mr. Wilfrid Firth defended. The former cited the Medicine-stamp Act and its schedules, stating what medicines should be sold by duty, and pointed out that others by being held out by advertisement as specifics for ailments must also bear duty. There are exemptions in the case of dispensing chemists and doctors, but defendant is neither. He issues a booklet recommending and advertising remedies for special ailments and diseases. An official of the Board wrote for a medicine for treatment of the eyes, and received the booklet, the medicine, and also a pamphlet describing how it was to be used. It was analysed and the defendant communicated with. He wrote in reply that he was dispensing the twelve non-organic salts as recommended by Schleussler's book upon the subject. He did not recommend those for every disease, but dealt with each one on its merits. It did not matter, counsel urged, for whom he dispensed, but what did matter's was that these medicines were held out and advertised as beneficial to people suffering from ailments, and on such there was a duty payable. Defendant also called on the Board, and in an interview with an official admitted that he had been selling the medicines for seven years, but during the war had made only about 5s, weekly. Even at that figure he had lost 24l. 10s. to the Revenue. Defendant was liable to a fine of 150l., but the Bench could reduce it, though it should be borne in mind that the Revenue had lost a large amount. Mr. Firth did not dispute the facts, but he urged that the defendant was doing no more than anyone could do by be borne in mind that the Revenue had lost a large amount. Mr. Firth did not dispute the facts, but he urged that the defendant was doing no more than anyone could do by asking for any Pharmacopœia prescriptions to be made up. His book was nothing more than a Pharmacopœia, and he had been always frank and open in his dealings. There was no advertisement. The book was not sent out except on application and on payment, and he then made up and sent any prescription wanted. Counsel quoted several books on Schleussler's treatment which had been published. Defendant, further, could only be an agent. He obtained books on Schieussler's treatment which had been published. Defendant, further, could only be an agent. He obtained the medicines from a big chemist depôt and resold them. Mr. Dart said the whole circumstances must be taken together. The issue of the book, which contained such advice as "Try Gilbert's special remedies," the sending of the medicine, and the pantohlet accompanying, must bring the case within the Act. Defendant, on oath, stated that he had not made more than 2s. 3d. a week out of the sales. He considered he was as much justified in selling as anyone who sold phenacetin and caffeine. The Bench as anyone who sold phenacetin and caffeine. The Bench, after a long deliberation, convicted defendant and fined him 30l.

New Companies.

Charing Cross Trading Co., Ltd. (P.C.).—Capital 500l. Objects: To earry on business as sugar substitute dealers, produce merchants, etc. R.O., 453 Strand, London, W.C. Maple Chemical Works, Ltd. (P.C.).—Capital 10,000l. Objects: To carry on the business of manufacturing and analytical chemists, manufacturers of explosives, etc. R.O., Maple Chemical Works, Barons Walk, Mitcham.

W. Davies & Co., Ltd. (P.C.).—Capital 1,0002. Objects: To take over the business of proprietary-medicine manufacturers earried on by W. Davies and P. C. Denson at Glasfryn, Gowerton, Glam, as "W. Davies & Co."

SOUCHETTE, LTD.—Capital 1,0002. Objects: To carry on

business as manufacturers and exporters of and wholesale dealers in sugar, sugar substitutes, and confectioners' re-guisites, etc. Solicitor: W. T. Hick, Broad Street House,

INECTO, LTD. (P.C.).—Capital 20,0001. Objects: To take over the business carried on at 154 North Audley Street,

over the business carried on at 15a North Audley Street, W., by a company of the same name, and to carry on the business of manufacturers of and dealers in "Inecto" compounds. R.O., 15a North Audley Street, London, W. National Waste Products. (Word "Limited" omitted from title by licence of the Board of Trade.)—Registered as a company limited by guarantee, not formed for profit, to encourage and promote the prevention of waste, to assist any municipal or other authorities, bodies, or individuals operating for the prevention of waste or the recovery and operating for the prevention of waste or the recovery and ntilisation of waste products, etc., and to acquire the business of Army Waste Products, Ltd., or any part thereof. R.O., Caxton House, London, S.W.

Association Affairs.

Chemists' Dental Society .- The report of the annual meeting of this Society (C. & D., May 25, p. 46) which is being sent to the members contains in addition to the annual report a copy of the memorandum which he Society annual report a copy of the memorandum which he society submitted to the Dental Act Departmental Committee. It is an interesting and clever statement of the case for dental chemists, who were especially singled out for assault in the Bill promoted by the British Dental Association.

Institute of Ophthalmic Opticians.—A special meeting of the Council was held on August 15 at the Holborn Restaurant, London, under the chairmanship of Mr. F. D. Badd. Eaching reference was made to the loss which the

Dadd. Feeling reference was made to the loss which the Institute and the optical industry had sustained by the death of Dr. McCulloch Ettles, the well-known oculist, and to the efforts which he had made to secure for the qualified optician legal recognition and to raise the status qualified optician legal recognition and to raise the status of the craft. A resolution of condolence and sympathy with Mrs. Ettles and her family was passed. Messrs. Thomas Henry Wright (Oldham), Ernest Benest (Ilford), Daniel Desmond (London), and Henry Millar (Leeds) were elected Fellows of the Institute. Mr. A. W. Boatman was re-elected Chairman of the Benevolent Fund Committee, and Mr. A. R. Nichols Chairman of the Finance Committee. With reference to military service, the Secretary (Mr. J. Harcombe Cuff) reported receipt of a letter from the Commissioner of Trade bysemptions of the National the Commissioner of Trade Exemptions of the National Service Ministry intimating that men of the new military age who had passed the examinations of the Spectacle-makers' Company or of the British Optical Association, and who had been engaged continuously in the business of sight-testing for the past ten years, need not now be called up, even for medical examination. In the course of some discussion which followed it was pointed out that only men who fulfilled the conditions monthing at the course of the course o who fulfilled the conditions mentioned as to qualifications who fulfilled the conditions mentioned as to qualifications and practice would be covered by the exemption. For example, a man who had passed the Qualifying examinations, but who had not practised sight-testing for the stipulated period, would not come within it. The excess-profits duty and the luxury-tax were also the subjects of report by the Secretary, and were discussed in Committee.

Titien C.A.A. Delagrate from the Lingwick and Cover.

Irish C.A.A.—Delegates from the Limerick and Cork Branches met at Cork on August 18. Mr. V. O'Sullivan (Chairman of the Cork Branch) presided, and explained a scheme for amalgamation with a larger union, but after discussion it was resolved to form a Munster Executive Council composed of two delegates each from Cork and Limerick and one or more from the other counties of the Province. It was agreed to begin expansing at one

Limerick and one or more from the other counties of the Province. It was agreed to begin organising at once.

National Association of Opticians.— The annual general meeting was held in Manchester, Mr. R. Chalmers (President) in the chair, when the annual report and balance-sheet were adopted and votes of thanks were passed to the Treasurer and to the Auditor (Mr. J. W. Watkinson), who was re-elected, as were also the retiring members of Council, Messrs. H. W. Daykin, H. Fowler, R. E. Heppell, and L. Moreton Parry. At an adjourned meeting of the Council held subsequently the following officers were re-elected for the ensuing year: President, Mr. R. Chalmers (Sunderland); Vice-President, Mr. L. Moreton Parry (Liverpool); Hon. Treasurer, R. E. Heppell (Newcastle); Hon. Sceretary, Mr. A. Hershberg (Manchester).

West Bromwich.—On August 21 Mr. and Mrs. Griffith

West Bromwich.—On August 21 Mr. and Mrs. Griffith invited West Bromwich and Smethwick chemists to a bowling match and tea at Great Bridge, the company including the Clerks to the Smethwick and West Bromwich Insurance Committees. After the match the party adjourned to the lawn behind Mr. Griffith's pharmacy, where tea was served. Mr. Hampton (President of the West Bromwich Association) expressed the thanks of the gathering to the host and hostess, and Mr. Griffith suitably replied. The work of the Proprietary Articles Trade Association and the Chemists' Defence Association was eulogised by Mr. Hampton. Other subjects discussed included fraudulent newspaper advertisements, the luxury-tax as affecting chemists' businesses, and Elliman's Embrocation. Several of those present said, in regard to the last-named, that they had ceased to stock the article. West Bromwich.-On August 21 Mr. and Mrs. Griffith

THE YEARLY TURNOVER of the drug department of Cowlairs Co-operative Society is now 6,000.

RADIUM.—According to advices from Mexico, a company has been formed at Mexico City for the exploitation of mines in the State of Chihuahua, in which traces of radium were recently discovered. The company will, it is stated, operate with a capital approximating one million pesos, and will start its work of exploration immediately.

Births.

FORSTER.—At 30 Church Street, Seaham Harbour, on August 22, Isabella Forster, Ph.C., wife of W. Forster, F.C.S., Ph.C., of a son.

KENDRICK.—At the Nursing Home, Hewlett Road, Cheltenham, on August 19, the wife of Herbert E. Kendrick, 8 Bath Place, of a daughter.

Powell.—At Grimesthorpe, Sheffield, on August 25, the wife of Albert R. Powell, chemist and druggist, of a daughter.

Marriages.

DICKINSON—Howes.—At St. Mary's Church, Stamford, on August 15, by the Rev. J. H. Bellhouse, Frederick Reginald Paradise, only son of the late Mr. F. Dickinson, chemist, and of Mrs. Dickinson, to Jessie Adelern, youngest daughter of Mr. E. E. Howes, Stromere, Stamford.

DIXON—KINCH.—At All Saints', Fleet, on August 26, Harold B. Dixon, C.B.E., F.R.S., Professor of Chemistry in Manchester University, formerly Fellow of Balliol College, Oxford, to Muriel Agnes Mary, Kinch, of Yelverton, S. Devon.

Deaths.

Bowley.—At 18 Grove Court, Drayton Gardens, London, S.W., on August 21, Mr. Joseph John Bowley, aged seventy-eight. Mr. Bowley, who died after a short illness, was the senior director and founder of the business of Samuel Bowley & Sons, Wellington Works, Battersea, S.W., paint, oil, and colour manufacturers.

DIXCN.—At Maryport, on August 16, Mr. John Dixon, J.P., chemist and druggist, aged seventy-eight. Mr. Dixon served his apprenticeship in Maryport with the late Mr. Buttermere, to whose business he succeeded. For upwards of forty years he was well known in the town as a pharmacist, a member of the Board of Guardians and of the Urban Council, and in other capacities. He was at one time President of the local Conservative Club.

FOWLER.—Recently, Alderman Valentine Fowler, Deputy-Mayor of Scarborough. Alderman Fowler began his career as a chemist's apprentice with Mr. Benjamin Taylor, Briggate, Leeds, but subsequently left pharmacy and became an auctioneer. He was twice Mayor of the borough.

an auctioneer. He was twice Mayor of the borough.

KIDD.—At 8 White Rock, Hastings, on August 20, Mr. Joseph Kidd, M.D., aged ninety-four. Dr. Kidd, who graduated M.R.C.S. in 1846 and M.D. in 1853, was for many years well known as a London consultant. His most distinguished patient was Lord Beaconsfield, during whose illness a difficulty arose in obtaining additional medical advice owing to Dr. Kidd's attachment to homeopathic principles—a difficulty eventually overcome by the intervention of Queen Victoria. John Bright was another illustrious patient. The lithographed prescription-forms frequently used by Dr. Kidd were not altogether appreciated by pharmaeists, as a letter in The Chemist and Druggeist, L, 1887, p. 569, testifies. Dr. Kidd was twice married. He is survived by twelve of his children, of whom two sons and a daughter are medical practitioners.

McRae.—At 24 Dove Road, Orrell Park, Aintree, Liver-

McRae.—At 24 Dove Road, Orrell Park, Aintree, Liverpool, on August 17, Mr. Colin McRae. For many years Mr. McRae was with Evans Sons Lescher & Webb, Ltd., whom he represented in the North of England and in Scotland. He was a persona grata with the retail trade, his tact and diplomatic address winning an extensive connection. The funeral took place at Kirkdalo Cemetery on

Sanderson.—At 12 Matlock Road, Brighton, on August 22, Mr. Frank Sanderson, chemist and druggist, aged forty-five.

Died on Service.

GERRARD.—Private Steven Gerrard, King's Own Scottish Borderers, is officially reported killed in action. Prior to his enlistment in 1916 Private Gerrard was with Joseph Crosfield & Sons, Ltd., Warrington.

GRAHAM.—Corporal William Hamilton Graham, R.A.M.C., died on service on August 15. Corporal Graham, who passed the Qualifying examination in 1913, was the son of Mr. Gilbert Graham, chemist and druggist, Girvan.

HINDLE.—Private A. Hindle, R.A.M.C., has been killed in action. Prior to joining the Army Private Hindle was with Tennants (Lancashire), Ltd., manufacturing chemists, Booth Street, Manchester.

HOLDEN.—Private Hartley Holden, Lancashire Fusiliers, has been killed in action, aged thirty-three. Prior to his enlistment in November 1916 Private Holden was with Levinstein, Ltd., Crumpsall Vale, Manchester. He leaves

a widow and a child.

JACOBS.—Captain Robert Jacobs, R.A.M.C., has been JACOBS.—Captain Robert Jacobs, R.A.M.C., has been killed on service by an enemy bomb. Captain Jacobs, whose home was at Solihull, was an experienced bacteriologist. Among the ideas that his inventive talent brought to fruition were a process of treating waste fats for the extraction of glycerin, a method of purifying water, and a self-emptying incinerator.

Personalities.

Mr. F. J. R. Bennerr has joined the board of directors of Ayrton, Saunders & Co., Ltd., Liverpool.

Mr. W. G. ROBERTS, chemist and druggist, Llanfair-fechan, has been elected a member of the Llanfairfechan Urban Council.

THE COURT OF THE APOTHECARIES' SOCIETY has elected Colonel B. B. Connolly, C.B., M.D., F.R.C.S.I., Master; Mr. Samuel Osborn, M.R.C.S., Senior Warden; and Sir Shirley Murphy, F.R.C.S., Junior Warden.
Mr. F. W. Moore, chemist and druggist, dispenser to the St. Pancras Guardians, has been granted the sum of 101. 10s, in lieu of annual leave due to him. This is the second year that Mr. Moore has been unable to take a

second year that Mr. Moore has been unable to take a

COUNCILLOR J. H. COLEMAN, chemist and druggist, Wolverhampton, has been elected by the Wolverhampton Education Committee as a Governor of the Grammar School, of which both he and his son have been pupils. Mr. Coleman is Secretary of the Wolverhampton Chemists' Association.

PROFESSOR MAXWELL-LEFFOY, Professor of Entomology at the Imperial College of Science, South Kensington, has, "The Times" states, accepted a year's engagement with the Commonwealth Government for 3,000l., plus 2,000l. for experiments. He will investigate the blowfly, the grain weevil, the woolly aphis, prickly pear, and the St. John's

AMONG THE SUCCESSFUL CANDIDATES at the recent Matriculation examination of the Northern Universities were Miss Dorothy Simmons (Salford Secondary School) and Mr. Harry T. Simmons (Manohester Grammar School), whose father, Mr. E. H. Simmons, pharmacist, Chapel Street, Salford, is the Hon. Secretary of the Salford Pharmaceutical Committee and a member of the Manchester Pharmaceutical Committee. Mr. H. T. Simmons is just fifteen recens of age years of age.

New Books.

Mansfield, W. Histology of Medicinal Plants. 9½ in. × 5½ in. Pp. 305. 13s. 6d. (Chapman & Hall, Ltd., 11 Henrietta Street, London, W.C. 2.) [Dr. Mansfield is professor of histology and pharmacognosy in the New York College of Pharmacy, Columbia University, and hence in providing a book on vegetable histology has given the medicinal plants the greatest prominence. The cells found in these plants are, however, typical of the cells occurring in the vegetable kingdom, so that the book is suitable for all students of histology. The first part (45 pages) deals with microscopes and microscopic technic, the second part being devoted to tissue-cells and cell-contents, and the third part to the histology of roots, rhizomes, etc. There are 127 full-page illustrations of histological features, and these are taken mainly from medicinal plants. The advantage of this method of study is that the characters are fixed on the mind, and the microscopic identification of medicinal plants is made easy. It is necessary, however, for the student to study the plants themselves, as the clearness of the drawings in the book is apt to be somewhat deceptive. This, of course, is a well-understood method of study.]

Proprietary Articles Trade Association Year-book, 1918.

Proprietary Articles Trade Association Year-book, 1918. 8½ in. × 5½ in. Pp. viii+246. (Office of the Association, 113 Temple Chambers, Temple Avenue, London, E.C. 4.) [Contains the Association's annual report for 1916-17, lists of officers and members and of protected articles, a section devoted to the work of the Chemists' Defence Association, Ltd., and other particulars. A copy is sent to every chemist in business in the United Kingdom!

Ltd., and other particulars. A copy i in business in the United Kingdom.]

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," August 7, 1918.)

"EMVITA"; for food-substances (42). By Eustace Miles Proteid Foods, Ltd., 40 Chandos Street, W.C. 2. 383,919.

"POUDRE NILDE" on circular devices; for face-powders (48). By C. Davis, 51 Ruc du Rocher, Paris. 379,467/8. (Associated.)

"PRESTORNAN PERFUMED" on circular device; for perfumed soap (48). By J. Mellis & Co., High Street, Prestonpans. 381,050. (Associated.)

"TREMFORMINA": for toilet preparations (48). By E. Thorn Aldwick

(Associated.)

"CREMECUMA"; for toilet-preparations (48). By E. Thorp, Aldwick Road, Bognor. 382,354.

"CANYS"; for perfumery, etc. (48). By Mary Hamilton, Awhea Cottage, Coombe Hill Road, Kingston-on-Thames. 382,949.

"RAZOF": for perfumery, etc. (48). By J. M. Whyte, 5-7 Ormeau Avenuc, Belfast. 383,213.

"MELORYS" and "ORRALYS"; for all goods (48). By Société Anonyme des Parfums d'Arys, 10? Boulevard de la Mission Marchand, Courbevoic (Seinc), France. 383,841/843.

"NEWTAK" on device of circles; for feeding-bottles (56), By A. Newton, 20 Salisbury Drive, Prestwich, Manchester. 383,366.

(From "The Trade-marks Journal," August 14, 1918.)

(From "The Trade-marks Journal," August 11, 1918.)

Device of pair of wings and globe bearing letter "G" ("G" disclaimed); for sanitary chemicals (2). By Gourmet & Co., 2 and 4 Mount Pleasant, W.C. 1. 381,647.

"PUMEX"; for goods (2). By Purex, Lat., Greenford Green, Harrow, Middlesex. 383,430. (Associated.)

"Linesol Brand Medicana. Oll"; for medicinal oils (3). By Sterns, Ltd., 16 Finsbury Square, E.C. 2. 381,730.

"Handolfa"; for paper prepared for medical purposes (3). By W. Divine, 9 Regent Street, S.W. 1. 383,262.

"Sarinola Brand Surgela. Deressines"; for surgical dressings (3). By W. Jowett, Mellor, Marple Bridge, Cheshire. 383,370.

"Vigenna Brand Beverage"; for medicated beverages (3). By T. Friar, 24 Pilcher Gate, Nottingham, 383,559.

"Refonic Brand Tonic"; for a tonic medicine (3). By J. Taylor and E. Sheffield. 26 Charing Cross Road, W.C. 2. 383,595.

"Vigenrate Brand," for medicinal chemicals (3); "Vegetract," for food-substances (42). By M. Summers, 52 New Broad Street, E.C. 2. 383,743/4. (Associated.)

"JEREZ-QUINA DUQUE," etc., on label; for a medicated wine (3). By Sanchez Romate Hermanos, 20 Lealas, Jerez de la Frontera, Spain, 383,985. (Associated.)

"Discus; for goods (15 and 16). By S. Maw Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1. 382,344/166. (Associated.)

"Pear Dust" and "Manyelle"; for bleaching powder (47). By The United Alkah Co., Ltd., Pier Heach, Liverpool."; Tonicol."; for all goods (47). By Henry Wells Oil Co., Bloom

By The 383,856/7. "Tonicol";

383,856/7.

"TONICOL": for all goods (47). By Henry Wells Oil Co., Bloom Street, Salford. 384,006.

"La Vogue" and boat-shaped device ("La Vogue" disclaimed); for perfumery (48) and for hair transformations, etc. (50). By Emile, Ltd., 24-25 Conduit Street. W. 1. 382,854/5.

Device of doorway headed "Science" and including wording "The Open Doon Concentrate," "Depeat of Time." etc.; for hair and skin preparations (48). By Constance E. Yorke, Hotel Cecil. Western Parade, Southsea. 380,192.

"Brillfix Brand"; for all goods (48). By J. J. Denton, Ltd., 7 Williamson Square, Liverpool. 383,255.

"Dewmint" across monogram "W P"; for perfumery, etc. (48). By W. Payne, Brand Street. Hitchin. 383,899.

(From "The Trade-marks Journal," August 21, 1918.)

POMPEY" across diamond-shaped device; for chemicals (1)
The Portsmonth Photo Co., Ltd., 8 Arundel Street,

The Portsmonth Photo Co., Ltd., 8 Arundel Street, Portsmouth. 384,061.

"Red Indian on horseback ("Red Indian" disclaimed); for a disinfectant (2). By T. Jackson (Clayton), Ltd., Ashton New Road, Clayton, Manchester. 383,301. (Associated.)

"Bordorite"; for chemicals (2). By W. Voss & Co., Ltd., Glengall Road, Millwall, E. 14. 383,551.

"Pharoson" and "Pharolefe"; for all goods (2). By W. Cooper & Nephews, Maryhill, Glasgow. 383,628/632. (Associated.)

"Chystolem"; for medicinal chemicals (3). By Sterns Ltd.

ciated.)

"Crystoleum"; for medicinal chemicals (3). By Sterns, Ltd., 16 Finsbury Square, E.C. 2. 382,713. (Associated.)

"PUREX"; for all goods (3). By Purex, Ltd., Greenford Green, Harrow, Middlesex. 383,431. (Associated.)

"Terolers Brand Stimutating and Antisperic Lozenge"; for medicinal chemicals (3). By A. Wander, Ltd., 45 Cowcross

**Haffow, Middlesex. 363,431. (Associated.)

Terolets Brand Stinutytring and Antiseptic Lozenge"; for medicinal chemicals (3). By A. Wander, Ltd., 45 Cowcross Street, E.C. 1. 384,270.

Ancroll"; for vulcanised oils (4). By The Anchor Chemical Co., Ltd., Clayton Lane, Clayton, Manchester. 382,507.

Bull's Head"; for mustard, etc. (42). Label devices including flag and bull's head and words "Compound Mustard," etc."; for mustard (42). By J. & J. Colman, Ltd., Carrow Works, Norwich. 382,762; 384,051/052/053. (Associated.)

"Licthols"; for confectionery, ctc. (42). By E. W. Sleath, Teneriffe Street, Manchester. 383,330.

"Tricolour Brand" disclaimed); for flavouring and colouring materials (42). By A. Brezet & Co., 145 Wool Exchange, Coleman Street, E.C. 2. 383,881.

"Gerhond"; for goods (42). By T. D. Williams, 21 Bellevue Street, Swansea. 383,954.

"Quencholeen"; for mineral waters, ctc. (44). By W. W. Brown, 26 Haymarket Terrace, Edinburgh. 384,260.

Trade Notes.

BRITISH SALICYLATES.—The London Chemical Works, Ltd., Scott's Road, Southall, are exhibiting the whole range of their manufactures of salicylates at the British Industries Fair which is being held at Glasgow.

Torsion Balances.—The Torsion Balance Co., 92 Reade Street, New York, have sent us a copy of their new catalogue of balances, several varieties of which are specially designed for use by dispensing chemists and analysts. The

list is fully illustrated.

DUBARRY'S TOOTH-PASTES.—The prices for these new toothpastes, which were advertised last week on the back cover of The Chemist and Druggist by The Standard Tablet Co., Ltd., Hove, should have been given as "Wholesale, 6s, 9d. Will our readers please note these reduced prices?

Quin-Quenna.—In one of the advertisements in the last issue of the C. & D. regarding quin-quenna, the name of the firm was accidentally omitted. It is the well-known firm Thomas Christy & Co., 4, 10 and 12 Old Swan Lane, Upper Thames Street, London, E.C., whose name we give in case any of our readers were puzzled by the anonymity.

"FORT-REVIVER."—H. & C. Newman, 41 Upper Rathbone Place, London, W., have now adopted as the trade-mark for Newman's "Fort-reviver" a picture of a wineglass filled with fruits. Formerly a pyramid was employed as a trademark on the labels of this non-alcoholic liqueur, but this is now to be replaced by the "glass of fruit" mark.

Weighing-Machine Proceeds.—The suggestion which was QUIN-QUENNA.-In one of the advertisements in the last

is now to be replaced by the "glass of fruit" mark.

Weighing-machine Proceeds.—The suggestion which was made by Messrs. Sangers that chemists should devote the proceeds of their weighing-machines for August to St. Dunstan's Hostel is referred to by Sir Arthur Pearson in an advertisement of this splendid charity in this week's issue of the C. & D. Sir Arthur gives directions as to the transmission of the amounts collected in this way, and intimates that he would be glad if chemists could see their way to continuing this form of charity. Will chemists please note this suggestion? this suggestion?

BRITISH SCIENTIFIC PRODUCTS EXHIBITION.—We referred in BRITISH SCIENTIFIC PRODUCTS EXHIBITION.—We referred in the C. & D., August 17, p. 38, to the official catalogue of this exhibition, which is not merely useful as guide to and souvenir of the exhibition, but is an authoritative record of the development of products and appliances of scientific and industrial interest which prior to the war were obtained chiefly from enemy countries, but are now produced in the United Kingdom. Those who were not able to visit the exhibition might like to have a copy of the catalogue. Copies can be obtained from the British Science Guild, 199 Piccadilly, London, W. 1, price 2s. 6d.

Kerocain.—Among the products which Thomas Kerfoot

KEROCAIN.—Among the products which Thomas Kerfoot & Co., Bardsley Vale, are showing at the British Scientific Products Exhibition, and which we did not particularise in our report last week, is kerocain, or Kerfoot's novocain. Our readers will have followed the steps taken steps taken by Messrs. Kerfoot to obtain a licence to use the novocain products, and will have admired the tenacity and patience which has been followed by the placing on the market of a product which if anything is superior to the enemymade drug. We refer to the matter here to call attention to a booklet of thirty-two pages which Messrs. Kerfoot have produced, in which full details are given as to the uses of kerocain in surgical operations. There are six varieties of kerocain tablets, varying in the content of kerocain and advanting Asparata, booklet is downton. of kerocain and adrenalin. A separate booklet is devoted to the dental uses of kcrocain, and is of special interest to-dental chemists.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

158/25. "Trufood" 158/30. Lloyd's specific gel-senium

161/49. Grape jelly, put up in 1-lb. and 2-lb. wide-mouthed " Pino Pepsine"

162/2. Hewlett's colloid paint 122/11. Gold pencil for gilding teeth, made by "Harding, London" "Ruby Composite"

"Imperial" 161/13. dental cream (copyright 161/35. Tansy Royal tablets 161/35. Fodallin capsules 160/46. Apothesine, local a 160/46. Apothesine, local anæs-thetie 160/55. "Lilarom" 161/19. Butler sarsaparilla 159/66. Sodium persulphate,

59/66. Sodium persulphate, actual British makers

Observations and Reflections.

By Xrayser II.

Your Educational Number

is always up to date; this year the information you give is more than usually pertinent to the conditions of the time. I refer particularly to the "lecturettes" introducing the sections dealing with the Preliminary, with Science, and with Medicine. The "invasion of women" has not yet done much to relieve the want of assistants: we were officially told last week that there are not qualified women enough to supply the lack of men—I believe the word used was "none"—in the Middlesex area. We shall probably want more rather than fewer in the time to come. Ambitious youth should ponder what you say of chemistry, the "key" industry, and the careers of which synthetic dyes hold the promise. Only a few minutes before your last issue came to hand my medical man was discoursing to me on the need of a more scientific education for that—as he thinks—indispensable functionary the general practitioner. He is, said my friend, threatened with extinction unless he can adapt himself to the requirements of a more exacting age, and his passing would be a grievous loss, not to be made up for by State-provided medicos, however scienti-Ecally qualified. But his sympathetic interest in his patients, his practical sagacity, his human helpfulness—qualities for which he is so honourably distinguished—are not enough to keep him abreast of the growth of knowledge. What is wanted is a hospital in every district -urban or rural-with a complete teaching staff-a "full team" of specialists in every branch of medicine (including microbiology and radiography)—by contact with which he could at all times refresh and reinforce his knowledge.

The Resolution in Favour of Federation

passed at the meeting of the East Anglia Federation is sound in principle, and shows the way we should go with regard to organisation outside of the Pharmaceutical Society, a thing the necessity of which grows more evident every day. The true unit is the local Association, as this resolution affirms, not the Pharmaceutical Committee, but to make the scheme fully effective every local Association must include every pharmacist in business within its area. Unfortunately, the "inertia of the chemists," as Mr. Robinson said, has to be taken into account. If they will not join the local Associations we cannot make them. We can, however, proceed without, though not so effectively as with them, and this must be done if all will not join. We cannot afford to wait for Utopia, but we may hasten its realisation, and nothing would do this so well as the inauguration of a scheme that anticipates it. Even now the Associations are the best representatives of local opinion in matters of general importance, and are sufficiently authoritative for practical purposes; the benefit their proper federation would secure would be the most effective means of attracting outsiders into them.

The Collection of Income-tax

at the source is an excellent device from the collector's point of view, but it is most unjust to the persons taxed. A few weeks since I neard a retired pharmacist complain of this bitterly. His savings (all earned) are invested chiefly in railway and other stocks or in mortgages. They make up three-fourths of his income and are, of course, taxed at the source. He gets the overplus of what is thus seized back again at the year's end, but not without a good deal of trouble and annoyance, and meantime he has been (as he put it) "'lying out" of it. I understand that the amount repaid to him this year was nearly 151.—a nice sum when it comes in, but too much to lie out of so long, and, of course, he loses the interest on it. Now, to a man with a very small income this is a serious grievance. By casual employment my friend still earns a little: how could this be taxed at the source without much greater injustice? The amount would be variable, always in dispute, and the inconvenience much increased.

Sir Ray Lankester.

discoursing of wasps in "The Daily News," very properly, as becomes a naturalist, confines himself to facts and ignores the curious old superstitions that were once taken for facts. Thus, while telling how the wasp's sting originated, he does not add that formerly its venom was supposed to be derived from serpents, on which (says Pliny) the wasp frequently feeds. Other writers have said that they dipped their stings in the venom of asps and adders which they have found dead, and that from this the "Indians" learned to poison their darts. Sir Ray tells us that the sting is peculiar to the female wasp; Topsell says that all wasps have stings except the "breeding females"—that is to say, the queens. It was held that bees were bred from the carcase of a bull, wasps and hornets from that of a horse. Bezoar stone was a famous remedy for their sting, as was also bole Armenia, mixed with vinegar and oil. Wasps had, so far as I know, but one use in medicine; dried and powdered they were supposed to promote the growth of the hair, like cantharides.

The Medicinal Plants

selected for the first series of Mrs. John D. Ellis's useful and attractive publication "Herbs Used in Medicine," seem to have been chosen on no particular plan, and the arrangement of the "botanical lecturettes" adopted will, if the series proves a long one, be rather awkward for the student. It is designed to enable the descriptions given of the plants to face the illustrations of the plant to which they refer—an excellent idea, but one which has the effect of an apparent want of system. The illustrations (all coloured) are for the most part admirable, and stress is laid on the fact that they are botanically correct and sufficient of themselves to enable a person ignorant of botany to recognise the plants when met with. The descriptions are also sufficient for their purpose and are commendably plain, but the non-botanical reader will sometimes have occasion to regret the lack of the glossary of terms for which the lecturettes aforesaid are substituted. Mr. E. M. Holmes contributes a laudatory preface.

"What Industry Owes to Chemical Science"

is the title of a very interesting little work just published by Constable & Co. at 38. net, in their "Engineer" Series. The debt which modern civilisation owes to chemistry cannot, of course, be fully written out in 140 pages, but the joint authors of this book, Messrs. R. B. Pilcher and F. Butler-Jones, succeed, as Sir George Beilby says in the preface he contributes, in setting forth adequately "in their bare simplicity the main facts of achievement." No amount of eloquent writing could have made the facts more impressive or their recital more interesting. The history of sulphuric acid, from its discovery by the alchemists of the fifteenth century to the present time, and the chief uses to which it has been put in further discovery is compressed into a chapter of eleven pages, which includes an account of the manufacture of alkali since the application of the acid to this industry by Leblanc in 1794. Dyes, explosives and cellulose, agriculture and food, gases and chemical products, occupy about the same space each or rather less, yet nothing essential appears to have been omitted. Drugs are treated under the last-cited heading, less than two pages being devoted to them; yet here, again, the salient facts, such as the discovery of alkaloids, the manufacture of synthetics, the use of metallic compounds as bactericidal agents, of anæsthetics, antiseptics, etc., are succinctly given. Minerals and meta's, oils, fats, and waxes, are among the other important subjects dealt with. An index of seven pages in double columns gives some idea of the wealth of information on these and many other subjects imparted in the briefest possible space. One instance of the illuminating character of the volume may be given. We are told that the various industries affected by dyeing exceed in annual value a sum of 200,000,000l., and that the labour involved in dyeing and printing is 2,000,000. It is claimed that since the war began we have been more rapid in our progress in this industry than the Germans were in their much-boasted synthesis of indigo.

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With 81 Illustrations.

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Jas. Burrough Ltd. D.1. Cale Distillery, Hutton Rd., LAMBETH, S.E. 11

PHARMACEUTICAL FORMULAS. (9th Ed.) 10/-, by Post 10/6. VETERINARY COUNTER PRACTICE. 4/6, by post 4/11. CHEMISTS' DICTIONARY OF MEDICAL TERMS. 3/-, by post 3/4.

THE CHEMIST & DRUGGIST (Book Dept.), 42 Cannon Street, LONDON, E.C. 4.

"THE VISION SPLENDID."

Remember: "It was their weight that told!"

The Chemists and Druggists of this Country are splendid. Their response to our suggestion that they devote the proceeds of their weighing-machines for the month of August to St. Dunstan's has been nothing short of regal.

At the moment I cannot say, of course—but it seems to me, from the unanimity of the response, that not one chemist in the Kingdom who has one of these machines in his shop has failed splendidly to fall in with the suggestion.

This is very gratifying to me and to all my co-workers, and—as whole-heartedly as if I could say the same to each one in person—I thank all who have thus humanly given their support to perhaps the grandest cause of the present day. It is hoped presently that we may be able to publish the name of the chemist who has taken the largest amount for the month of August.

In the meantime, the success of the past month emboldens me to strain the good-nature of the chemist's fraternity a little further and to invite them to continue for the month of September, or even longer where possible—some having graciously allocated their weighing-machine receipts for the benefit of St. Dunstan's for the duration of the war.

Will those who are agreeable kindly open their collecting boxes and send a cheque for the amount of the August proceeds to the Treasurer, Blinded Soldiers' and Sailors' Hostel, "St. Dun-tan's," Regent's Park, N.W. 1,* intimating their willingness or otherwise to devote September's proceeds to the same cause—when a new box will be sent by return?

Rethy Teanson

Blinded Soldiers' and Sailors' Care Committee.

*Registered under the War Charities Act, 1916.

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Editorial Articles.

Pharmacy in Parliament.

It seems to be generally agreed that there will be a general election of members of the House of Commons within the next few months, and the question naturally arises, What steps are being taken by the drug-trade to assist a representative pharmacist to obtain a seat in Parliament? The outlook of Parliamentary representation in the political sense has been very much altered by the Reform-Act. The number of electors has been greatly increased, all elections are to be held on the same day, and various steps have been taken to simplify the process of electing representatives of the people. Election expenses are more limited than formerly, and in view of the paper scarcity a further check will be imposed upon expenditure in this direction. These changes are expected to bring about a plethora of candidates, and already the various political parties are announcing selections. It will be freely conceded that Mr. Glyn-Jones's representation of pharmacy in the House of Commons has been of exceptional value to the trade. At the annual representative meeting of the British Medical Association, when the question arose of medical Parliamentary candidates, one of the speakers described the circumstances under which chemists had secured the election of Mr. Glyn-Jones, adding, "He (Mr. Glyn-Jones) has been of very great service in Parliament to the chemists whose organisation had promoted his candidature." This opinion from an outside body will be endorsed by chemists themselves. It is well known that, owing to ill-health, Mr.

Glyn-Jones will not again contest a seat in Parliament, and also that Mr. Woolcock, who had been selected as a pharmacy candidate, is not now available, although it is understood that he will still endeavour to enter Parliament in the interests of the chemical manufacturers. A large sum of money has been collected from the drug-trade as a Pharmaceutical Parliamentary Fund, but the fund is held not to be part of the income of the Pharmaceutical Society and the money is treated like the secret funds of political parties. The amount of the fund has not, so far as we are aware, been disclosed, but we believe that a sum of between two and three thousand pounds—it may be more—is available for promoting the candidature of pharmacists who will, if elected, undertake to look after the interests of the drug-trade when questions affecting it are before Parliament. There is thus, it will be seen, enough money to assist three or four candidates, so that the election of pharmacists of different political opinions can be helped. Pharmacy as such has no politics, but in the absence of any other method of representation this must be sought through men of definite political opinions. It has been a difficulty with some chemists that their conscience would not allow them to assist in the return of a candidate of opposite political opinions to their own, but this need not exist if a choice of candidates is available from different political parties. There is, however, a strange silence at Bloomsbury regard-Incre is, however, a strange silence at Bloomsbury regarding this matter, and it looks as though the opportunity will be lost of helping to secure the representation of pharmacy in the first Parliament after the Reform Act. This would be unfortunate, as previous experience has shown that such Parliaments are politically strong and likely to persist for the full term. Are there none of the pharmaceutical councillors or barristers who will step into the breach?

The New Dutch Cinchona Contract,

FROM information published in the German and Dutch technical and commercial journals, including "De Indische Mercuur," it appears that the old cinchona contract between the Java cinchona-planters and the Dutch, Java, English, and German quinine-manufacturers, which lapsed on July 15 last, after having been in operation for five years, has been replaced by a new contract which is to cover the period from July 15, 1918, to December 31, 1923, and is between the cinchona-planters in Java and the Dutch quinine-makers, comprising the Amsterdam, Maarssen, and Bandoeng factories. The Cinchona Bureau is in future to consist of three representatives of the planters and a like number of delegates from the factories with an independent Parishest who will direct because the control of the control tories, with an independent President, who will direct its operations. The Bureau is to take a more active part in the work of the syndicate, and among other things will fix the price of quinine and maintain a representative in Java. The basis of the new contract is to be the price of quinine. When this does not exceed 20 floring per kilo. the planters are to receive three-fifths and the quinine-makers the rest. Any advance on 20 florins is to be divided equally between the two parties. The price of during sulphate. This is to be paid to the planters by the factory on delivery of the bark, and the rest, on the basis mentioned above, will be paid by the Bureau when the price of the quinine is settled. In future the calendar year is to be the normal working period, and the makers are pledged to take bark equal to 515,000 kilos. of quinine sulphate each calendar year. The first period is to be July 15, 1918, to December 31, 1919, and in this they have guaranteed to take bark equal to 751,000 kilos. These quantities appear to be minima, and the actual takings are to be settled each year in Holland or Java as may be arranged. Pharmaceutical bark is outside the scope of the agreement so long as it is sold by public auction in Amsterdam or direct in Java. Sold otherwise it is not to be disposed of below prices 50 to 85 per cent. higher than those that would be obtained for it if it were considered as factory bark. The agreement is stated to consist of some 200 articles dealing with numerous details, such as deductions for deliveries in Java,

methods of sampling, procedure regarding analysis, questions of shipping and transport during the war, etc. The Java planters are said to be well satisfied with their prospects as regards prices under the contract, and it looks very much as if the manufacture of quinine as well as cinchona planting will be more than ever a Dutch monopoly.

Company Law Amendment.

LAST February a Committee was appointed by the Board of Trade to inquire . what amendments are expedient in the Companies Acts, 1908-17, particularly having regard to circumstances arising out of the war and of the deve-lopments likely to arise on its conclusion. The appointment of the Committee arose out of the opinion expressed in the House of Commons that something must be done to circumvent the machinations of enemy aliens in what used to be called "peaceful penetration" of friendly countries. The Committee has now reported, and the report, so far as suggesting any methods of checking the control of alien enemy finance in this country, is practically a negative one. It is remarked that what the Committee had to consider was not a question of company law amendment at all, but one of high political and economic policy. Restrictions upon the influx of capital would not as a matter of fact affect the Germans, because after the war there will be no German capital for investment in foreign countries and any restrictions on aliens would probably have a deterring effect in the case of capital flowing from such a country as the United States—an effect that no one desires to bring about. The Committee concludes that the expediency of attracting foreign capital to this country should be borne in mind, and anything having a restrictive or deterrent effect should be avoided so far as possible. The question of alien share-holders is shown to be one of difficulty, so the Committee pass on to consider whether any class of companies should be subjected to discrimination. Class "C" of the three classes into which the Committee divides companies are those engaged in "key" industries. A typical case is the industry controlled by the Non-Ferrous Metal Industry Act, 1918. "Key" industries not specially controlled might be dealt with by an amendment of the Companies Acts giving the Board of Trade power to make an inquiry at any time as to whether a company is carrying on a "key" industry or not, and if it found to be carrying on such a business special provisions of the Companies Act could apply. These include a notice to share-holders to disclose their nationality and a limitation to 20 per cent. of the amount of share capital held by aliens. The Committee comes to the conclusion that aliens cannot be prevented from incorporating companies in this country, because it would always be possible to obtain the signature of British subjects to the memorandum of association and the identity of those behind the subscribers could be effectually concealed. The Committee suggests, however, that alien companies should be prevented from employing titles which convey expressly or by implication British nationality; the Registrar of Companies to be entrusted with powers to refuse at his discretion names which he judges to be a misrepresentation of nationality. Among other amendments of the Companies Acts which are suggested by the Committee is one dealing with the memorandum of association, which it is suggested should state the objects but not the powers of the company, such powers as it is thought necessary to state being given in the articles of association. The Committee recommends that the annual summary should include the amounts or rates of dividend which have been paid since the last balancesheet or are proposed for payment as the result of the trading. Payment to directors free of income-tax or of supertax it is proposed to forbid. In regard to private companies, of which out of 66,000 companies on the register 50,000 fall within this category, it is claimed that these figures and the evidence before the Committee show that the private company has met a want. The principal attraction of the private company lies in the fact that the company need not make the annual statement required by Section 26 of the Act of 1908. It avoids the necessity

of an annual publication of facts from which the success or failure of its trading may be ascertained. There is no evidence that the private company has been used for purposes of fraud. It has been on its trial for about ten years. "We think it has up to the present justified its existence and should be left undisturbed," is the conclusion arrived at by the Committee,

Trade with Canada.

In a Report dealing with the trade of the Dominion of Canada and Newfoundland during 1916, Mr. C. Hamilton Wickes, H.M. Trade Commissioner, gives some hints to traders. In the course of a recent visit to the Western Provinces he was impressed by the prevalent desire among business men for improved commercial relations with the United Kingdom, and for a larger trade in British goods. In appointing agents to represent them in Canada, he says, British firms should investigate thoroughly the standing and reliability of the persons whom they contemplate employing. The assistance of the Department of Commercial Intelligence of the Board of Trade may be invoked in this connection. The majority of Canadian importers in goods handled directly or indirectly through the retailer look for credit such as is customarily extended by the established American manufacturers. It is of no use for British manufacturers to insist on "cash against documents" or "before shipment." United Kingdom firms wishing to open up or extend business in Canada must realise that they have to face strong American competition. Mr. Wickes says that in quoting prices to possible customers.

"It is a great advantage to quote in Canadian currency, giving the fullest possible details as to terms, discounts, packing (how many in a case, etc.). Such terms as 'c.i.f.' 'f.o.b.,' ctc., are used very loosely on this side, and it is advisable, at the risk of what may appear redundancy, to make one's meaning perfectly clear. For instance, 'f.o.b. Liverpool' might be rendered free of all possible chance of mistake by saying, 'free on board steamer at Liverpool, ocean freight and insurance to be paid by the buyer'; or 'c.i.f. Montreal' might be made more specific by saying, 'cost, insurance, freight to Montreal, delivered ex ship.'"

Prosperity was general throughout Canada in 1916, with business exceptionally active, and many new channels of trade were opened out, due principally to the demand for war-supplies from the Allies. For the calendar year 1916 the imports show an increase over the calendar year 1915 of 70.2 per cent., and the domestic exports an increase of 77.7 per cent., as the following totals (excluding coin and bullion) show:

Twelve months ended Dec. 31		Impor	Domestic Exports		
		Dutiable Goods)	Free Goods	Total	Total
1914 1915 1916	•••	261,842,173	\$ 178,802,345 188,705,601 344,328,201	450,547,774	\$ 379,295,854 614,129,845 1,091,706,403

In the imports of drugs and chemicals there is an advance in values of over eleven million dollars, or 82 per cent., in excess of 1915—the United States, under present conditions, easily obtaining the major portion of the additional trade; but further details in regard to this competitive business are omitted, the figures only being given; they are:

1915 From all From From all From U.K. U.K. Countries Countries Drugs and chemicals 2,420,586 13,667,400 3,362,531

It is interesting to note, from a census taken in 1915, that there were at that time 255 factories devoted to chemical and allied products in the Dominion, with a capital of \$52,148,588, the cost of materials used being \$24,930,308, and the value of products sold \$45,410,486.

Newfoundland also had a very satisfactory commercial year, especially in the export of fish oils. The export of medicinal cod-liver oil was 142,637 gals., valued at \$254,562, against 47,170 gals., valued at \$35,387, during 1915, and the compulsory Government inspection of the oil has led to a much better quality being exported. cutting-off of Norwegian supplies has of course helped Newfoundland, and it is to be hoped that every encouragement will be given to the product after the termination. of the war.

Overseas Pharmaceutical Reciprocity.

The question of the agreement for the reciprocity of pharmaceutical qualifications between the Pharmacy Board of New South Wales and the Pharmaceutical Society of Great Britain came up at a meeting of the former body on May 28. It is a useful reminder to British chemists emigrating to Australia that applicants for registration in the Australian States are required to produce:

(a) The certificate of having passed a Preliminary examination;

(b) The certificate of service of apprenticeship; (c) The certificate of having passed the Qualifying

(c) The certificate of having passed the Quantying examination; or (d) The certificate of registration as pharmaccutical chemist of Great Britain; or, in the alternative, A special certificate issued to a pharmacist intending toleave Great Britain for one of the Colonies, covering each of the four certificates previously mentioned.

The agreement is made in this form so as to reduce the risk of fraud. In future the requirements are to be strictly enforced although it appears from the discussion that took place at the Pharmacy Board that there are exceptional cases where registration is effected without α strict observance of the letter of the agreement.

Imports of Proprietary Medicines.

ONE of the matters discussed at the annual meeting of the Owners of Proprietary Articles Section of the London Chamber of Commerce (C. & D., June 29, p. 36) was the effect of the restrictions imposed by the Department of Import Restrictions upon the importation from the United States of proprietary medicines. The Deputy Controller of the Department has asked the Chamber to prepare an exhaustive list of the proprietary articles for which the members of the Owners of Proprietary Medicines require permits, together with an estimate of the tonnage represented by the list. It is intended to make a concession upon the basis of 50 per cent. of the importation of the medicines in 1917 as represented by the tonnage. In acquainting the members of the Section with the decision of the Imports Restrictions Department, the Secretary of the Chamber points out that the lists of medicines should be confined as much, as possible to those which are of national importance. The lists should be forwarded to the Secretary of the Lendon Chamber of Commerce, Oxford Court, Cannon Street, London, E.C. 4, before September 6.

MOTH LARVE will eat cloth that has been soaked in a solution of mercury perchloride.

THE BLACKBERRY, famous as the latest object of "Dora's" attention, has many dialect names. Among them are bumble kite, brummel, bly, brambleberry, and brameberry. bumble kite, brummel, bly, brambleberry, and brameberry.

"The Call of the World."—A copy of the book with this title has been sent to us, and we looked through it with some curiosity to ascertain, if possible, what connection it had with pharmacy. The author is Mr. A. S. N. Wadia, of Bombay, and the book is a record of events as seen through the eyes of an educated Parsee in the course of a year's tour round the world. Before long we discovered that Mr. Wadia had contracted an intimate friendship with a Welshman he had met some years before in a chemist's shop in Chester. So intimate did they become that Mr. Wadia dedicated one of his books to the Chester chemist, and acted as one of the godfathers to the chemist's newly-born son. Later on we find his Chester friend conducting Mr. Wadia over Helvellyn, and showing him some of the beauties of the Lake district. Readers of The Chemist and Druggist will have no difficulty in recognising the personality of the Chester chemist with literary proclivities, Welsh ancestry, and a taste for mountaineering.

British Pharmaceutical Codex Addendum, 1918.

Through the courtesy of the Pharmaceutical Society of Great Britain, we have received a copy of the new formulas which have been devised to take the place of those Pharmacopœial articles in which edible fats and oils were employed. It will be remembered that the General Medical Council published in the "London Gazette," March 29, a schedule of amendments and alterations of the British Pharmacopœia (C. & D., April 6, pp. 34 and 43), but gave no indication as to suitable formulas to replace those which pharmacists could not compound owing to the Orders of the Ministry of Food, which prohibited the use of edible fats and oils for purposes other than those of human food. The Pharmaceutical Society has endeavoured to make up for this omission by publishing the following formulas. Chemists should especially note that they will be liable to penalties under the Sale of Food and Drugs Acts and the Merchandise-marks Act if in selling substituted articles the purchaser is not given notice of the true nature of the article supplied: article supplied:

ADEPS FACTITIUS. Lard Substitute

Wool-fat	***	• ;•		 5
Hard para	ffin			 10
Soft parafi	in, wh	ite		 85
Mclt together:	stir	antil c	old.	

"Lard substitute" is suitable for use in the place of prepared lard in making the following official prepara-

Adeps benzoatus, ung. aconitinæ, ung. atropinæ, ung. cocainæ, ung. iodoformi, ung. lanæ compositum.

Benzoated lard made from "lard substitute" is suitable

Benzoated lard made from "lard substitute" is suitable for use in making the following official preparations:

Ung. cantharidini, ung. gallæ, ung. hydrargyri ammoniati, ung. hydrargyri iodidi rubri, ung. hydrargyri oleati, ung. hydrargyri subchloridi, ung. myrobalani, ung. plumbi iodidi, ung. potassii iodidi, ung. staphisagrie, ung. sulphuris, ung. zinci.

In the case of ung. belladonnæ, ung. capsici, ung. hydrargyri, ung. hydrargyri co., and ung. resinæ, "lard substitute" is to be employed in place of the compound bases as given in the British Pharmacopeia. The following ointments are otherwise modified:

ing ointments are otherwise modified:

UNGUENTUM IODI. Iodine Ointment.

Iodine	***			4
Potassium iodide	• • •		•••	4
Distilled water	• • • • •		• • •	12
Wool-fat	• • • •	•••		10
Liard Shoshidde				(4)

Melt the wool-fat on a water-bath; add the lard substitute; mix with the iodine, potassium iodide, and water previously triturated together in a glass or porcelain mortar.

UNGUENTUM PICIS LIQUIDUM. Tar Ointment.

Tar		 70
Soft paraffin, yellow		5
Yellow beeswax		 25
Melt together: stir until	cold.	

Paraffinum Liquidum Flavum. Yellow Liquid Paraffin.

Yellow liquid paraffin is a mixture of liquid hydrocarbons.

carbons.

Characters and Tests.—Transparent, pale yellow, or pale brownish-yellow in colour, fluorescent. Specific gravity at 15,5° 0.890 to 0.92°). Almost free from odour and taste. A mixture of 4 millilitres of yellow liquid paraffin, 2 millilitres of absolute alcohol, and 2 drops of a clear saturated solution of lead oxide in solution of sodium hydroxide does not become darker than pale brown when kept at 70° for ten minutes (limit of sulphur compounds). When 3 millilitres are heated with 3 millilitres of sulphuric acid diluted in an equal volume of water, in a test-tube placed in boiling water for ten minutes, and frequently shaken, the acid layer, after separation, is not darker than pale brown. Ten millilitres of alcohol (90 per cent.) boiled with 5 millilitres of yellow liquid paraffin are not acid to litmus.

This is employed in the manufacture of lin. camphoræ, lin. chloroformi, and lin. terebinthinæ aceticum.

The basis of the following liniment has been modified:

LINIMENTUM HYDRARGYRI. Liniment of Mercury.

Determent of the	· car y ·	
Mercury		 9.0
Soft paraffin, yellow		 19.0
Wool-fat		 1.5
Oleic acid		
Solution of ammonia		 23.0
Liniment of camphor		 44.0

Mix the wool-fat and soft paraffin, and triturate with the mercury until metallic globules cease to be visible. Mix the oleic acid with the limment of camplior; add the solution of ammonia and shake well; incorporate with the

mercurial emulsion

The following formula has been altered by the use of linseed oil in place of castor oil:

LIQUOR CRESOL SAPONATUS.

Solution of Cresol with Soap.						
Synonym—Compound Solution of C	resol.					
Cresol, by weight	50.00					
Linseed oil, by weight	18.00					
Potassium hydroxide	4.25					
Distilled water, by weight to	100.00					

Heat the linsed oil to a temperature of about 70°; add the potassium hydroxide dissolved in 25 of distilled water at the same temperature, and mix thoroughly; continue the application of heat, without stirring, until a small portion of the soap is found to dissolve in water without the separation of oily drops; add the cresol, mix, and adjust the weight of the product by evaporation or the addition of distilled water.

Isotonic Coefficients.

By Wm. A. Knight, Ph.C.

DISPENSERS are nowadays often asked to prepare solutions of different substances of, such strength that they will have the same osmotic pressure. This can, of course, be done by determining the freezing-point of the solution of one substance and then by a series of experiments making a solution of the second substance with the same freezing-point but this method veguing extremely careful manipule. one substance and then by a series of experiments making a solution of the second substance with the same freezing point, but this method requires extremely careful manipulation and takes considerable time. If the substances are non-ionising, the calculation is simple, since molecular proportions of all such substances produce the same osmotic pressure—e.g. if 360 of milk-sugar have the same osmotic pressure as 160 of glucose, then two of milk-sugar have the same osmotic pressure as one of glucose. With ionising substances the calculation is complicated by the fact that a salt such as sodium chloride is partly dissociated into ions of Na and Cl, each of which exerts osmotic pressure, and the amount of ionisation varies with the strength of the solution. It has, however, been shown that equimolecular solutions of substances of the same chemical class (e.g., potassium and sodium salts of monobasic acids) are isotonic, but these relations hold good only for members of the same class, and not of different classes. The isotonic coefficients—i.e., the numbers expressing the relative osmotic pressures exerted by molecular proportions of the different classes of compounds in dilute solution—are as follows: pressures exerted by molecular proportions of each classes of compounds in dilute solution—are as follows:

Potassium and sodium salts of monobasic acids ... dibasic acids tribasic acids ,, . Alkaline earth salts of monobasic acids ...

The calculation can also be made from the partial coefficients of the constituents—*i.e.*, every acid radicle, 2; every atom of alkali metal, 1: every atom of divalent metal, 0. If now we wish to make 4 fl. oz. of a solution of glucose isotonic with normal saline (0.9 per cent. NaCl), we have:

Amount of NaCl in 4 fl. oz. of 0.9% solution = $4 \times 0.9 \times 4.375 = 15.75$ grains, and 58.5 of NaCl : 180 of glucose : 3 : 2, or 2×58.5 NaCl = 3×180 glucose, or 1 of NaCl = $\frac{3 \times 180}{2 \times 58.5}$ glucose,

 2×58.5 4 fl. oz. of solution.

Similarly, to calculate the strength of a solution of magnesium sulphate isotonic with sodium chloride, we have:

246.5 of mag. sulph. : 58.5 of sodium chloride :: 2 : 3, or 3×246.5 mag. sulph. = 2×58.5 sodium chloride; for Mg = 0 and Na = 1 SO₄ = 2 Cl = 2

 $... \operatorname{MgSO}_4 = 2$; ... NaCl = 3.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres. ENGLAND.

Oldham.—At a meeting of the Insurance Committee it was reported, with reference to the position of dispensing chemists and military service, that the Pharmaceutical Committee stated that thirty-eight chemists' assistants in the town had been taken for the Army, and that it was not considered possible to release another man. A deputation from the National Service Department subsequently interviewed the Medical Benefits Sub-Committee, and pointed out that five men came within the age-limits of the recent circular relating to chemists and assistants. It was agreed that one man should be released, and another if classified Grade 1 when re-examined.

Salford.—The Insurance Committee has completed its

Salford.—The Insurance Committee has completed its negotiations with the National Service Representative, and a list of chemists held to be indispensable has been agreed upon. A resolution has also been forwarded to the Salford Tribunal urging the desirability of relieving all pharmacists and their assistants (in the agreed list) from duties in connection with the Volunteer Training Corps when issuing certificates of exemption from military service.

Sheffield.—The Pharmaceutical Committee met on

issuing certificates of exemption from military service.

Sheffield.—The Pharmaceutical Committee met on August 23, Mr. A. H. Culverhouse presiding. A letter was read on the question of enlisted chemists being posted to the R.A.M.C., which showed that only qualified men of the higher medical grades have any chance of getting into the R.A.M.C. The April and May checking reports were received and were considered highly satisfactory. That for April on 107l. value of scripts only showed a net result of +½d. and a percentage result nil, while May only showed a percentage result of +0.04. It was decided to ask the Insurance Committee to allow in future the payment for capsicum-wool as a degree of cotton-wool, it being pointed out that wool could be used with the addition of tr. capsici. The Insurance Committee are also to be requested to make an adjustment on the errors revealed be requested to make an adjustment on the errors revealed by the Central Checking Bureau when the amount is one shilling or over either for or against the chemist. A better shilling or over either for or against the chemist. A better prescription-book is to be asked for as the carbons are so poor that the chemist very often has to make copies. The Committee considered a circular from the Society asking for suggestions re the 1919 Tariff, and it was decided to confirm the five suggestions already submitted, but to lay stress upon the greatly increased cost of heating and lighting which has seen having the received to confirm the stress of the second support the process of the second support support the second support support the second support suppo lighting (which has risen during the year more than 33 per cent.), also the increased cost of wages, and that a minimum fee of 4½d. be pressed for; also that sufficient time be given to consider the final suggestions of the Local Associations Executive by full panel-chemists' meetings.

ciations Executive by full panel-chemists' meetings.

Wolverhampton.—The Pharmaceutical Committee met on August 23, when Mr. F. J. Gibson. J.P., was re-elected Chairman, Mr. S. Phillips was elected Vice-Chairman, and Mr. J. H. Coleman was re-elected Secretary. The various Sub-Committees were re-appointed. The Secretary reported the meeting of the National Service Representative with the deputation of the Insurance Committee, and after a discussion it was resolved to submit to that Committee the views of the Pharmaceutical Committee.—Mr. F. J. Gibson has been re-elected Chairman of the Medical Benefit Sub-Committee.

Sub-Committee.

August Drug Tariff.

The following are the alterations for August in the Drug Tariff issued by the Nation England and Wales: National Health Insurance Commissioners for

Lower: Acetanilidum, 9s. lb.; acid. acetylsal., 1s. 4d. oz.; Lower: Acetaniidum, ?s. lb.; acid. acetylsal., 1s. 4d. oz.; acid. benzoic. (synthetic), 2s. oz.; barbitonum, 11s. oz.; butylcbloral hyd., 12s. 4d. oz.; cale. lact., 13s. 4d. lb.; camphora (flowers), 6s. 5d. lb.; creosotum, 2s. 8d. oz.; hexamina, 13s. 4d. lb.; lin. camph., 4s. 4d. lb.; lin. methyl sal. co., B.P.C., 14s. 3d. lb.; liq. formaldehyd., 2s. lb.; liq. formaldehyd., 2s. lb.; liq. formaldehyd., sap., 5s. 8d. lb.; methyl salicylas, 9d. oz.; paraldehyd., 1s. 2d. oz.; phenacetin., 2s. 2d. oz.; phenazon., 4s. 3d. oz.; pot. bicarb., 2s. 10d. lb.; not. brom., 8s. 6d. lb.; sacc. lact., 7s. 8d. lb.; tab. acid. dietbylbarb., gr. v., 17.70d. per doz.; tab. phenacetin, gr. v., 3.60d. per doz.; tab. phenacetin. co., B.P.C., 4.32d. per doz. Lint, unmedicated, 8 oz., 29.00d. Oiled paper, 1.50d. per sheet. Catheters. best brown gum-elastic, 6.50d.; ditto. soft Catheters, best brown gum-elastic, 6.50d.; ditto, soft rubber, 7.20d. each.

Higher: Acid. phosph. dil., $8\frac{1}{2}d$. lb.; acid. sulph. aromat., 6s, 4d. lb.; ather, B.P. 0.720. 4s, 2d. lb.; ammon. cblor., 1s. 4d. lb.; aq. camph. ex conc., 7s. 6d. lb.; argent. proteinat., 1s. 11d. oz.; calc. hypophosph., 6d. oz.; chloroform. B.P., 1s. 1s. 1s. chloroform. camph., B.P.C., 9s. 3d. lb.; collod. aceton., B.P.C.,

8s. lb.; collod. belladon., B.P.C., 17s. 9d. lb.; collod. flexile meth., 5s. lb.; dec. scoparii (ex conc.), 2s. 6d. lb.; digit. fol. ang. pulv., 4s. 3d. lb.; emul. olei morrhuæ, B.P.C., 2s. 5d. lb.; ext. bellad. liq., 23s. 6d. lb.; ext. casc. sagr. liq., 3s. 10d. lb.; ext. cinchonæ liq., 6s. lb.; ext. crgotre, 3s. 8d. oz.; ext. ergot. liq., 9s. lb.; ext glycyrrh. liq., 5s. 6d. lb.; ferri et ammon. cit., 5s. lb.; inf. buchu (ex conc.), 5s. 8d. lb.; ferri et ammon. cit., 5s. lb.; inf. buchu (ex conc.), 5s. 8d. lb.; inf. cascarill. (ex conc.), 3s. 2d. lb.; lin. camph. am. meth., 3s. 8d. lb.; lin. sepl. meth., 2s. 3d. lb.; lin. tereb. acet., 4s. 6d. lb.; liq. adrenal. hydrochl., 2s. 4d. oz.; liq. hamamelidis, 3s. 4d. lb.; dip. hydrogen. perox., B.P., 8½d. lb.; liq. hydrogen. perox. (20 vols.), 1s. 4d. lb.; liq. morph. hydrochl., 7s. 6d. lb.; liq. pepticus, B.P.C., 3s. lb.; liq. proph. liq. hydrogen., 7s. 6d. lb.; liq. morph. hydrochl., 7s. 6d. lb.; liq. pepticus, B.P.C., 3s. lb.; liq. picris carbonis, 7s. lb.; liq. plumbi subacet. fort., 9½d. lb.; lithii carb., 1s. 3d. oz.; ol. cajuput., 10d. oz.; ol. caryoph., 30s. 6d. lb.; plumbi acet., 4s. dr.; morph. hydrochl., 25s. oz.; ol. anisi, 6½d. oz.; ol. cajuput., 10d. oz.; ol. caryoph., 30s. 6d. lb.; plumbi acet., 3s. lb.; pot. acet. (dry granules), 6s. 6d. lb.; pot. cit., 6s. 4d. lb.; pulv. jalap. co., 6s. 2d. lb.; quin. hydrochl., 7s. oz.; sodii benz., 2s. 3d. oz.; sodii glycerophosph., 50%, 9d. oz.; sodii phosph., 1s. 10d. lb.; sodii phosph. sodi., 3s. 7d. lb.; sodii phosph., 1s. 10d. lb.; sodii phosph. acid., 3s. 7d. lb.; spt. ammon. aromat., 4s. 9d. lb.; sodii salicylas (cryst.); 9s. lb.; spt. atheris, 5s. 8d. lb.; spt. ather. nitrosi, 6s. 2d. lb.; spt. ather., 13s. gal.; succ. scoparii, 3s. lb.; succ. tarax., 3s. 10d. lb.; syt. ferri phosph. c. quin. et strych.. 2s. 8d. lb.; spt. vini meth., 13s. gal.; succ. scoparii, 3s. lb.; tr. carborof., 7s. 10d. lb.; tr. chlorof. et morph., 9s. 4d. lb.; tr. chlorof. et morph., 0s. 3d. lb.; tr. canban. nid., 2ls. 6d. lb.; tr.

SCOTLAND.

Aberdeen.—A well-attended meeting of Aberdeen panel chemists was held in Gordon's College, on August 26, under the chairmanship of Mr. A. F. Dugan. In view of the meeting of the General Council of Panel Chemists to be held in Edinburgh on August 28, the terms for National Insurance dispensing for 1919 were under discussion. A motion was put forward to the effect that, while still maintaining the inadequacy of remuneration for Insurance work the status area should be continued during the period. work, the status quo should be continued during the period of the war. An amendment advocating a demand for a 25 per cent. war bonus on dispensing-fees found some support, but was lost on the vote.

Wills.

Mr. Thomas Robert Prime, chemist and druggist 21 Westow Hill, Upper Norwood, who died on May 6, left estate valued at 2.253l. 0s. 4d. gross, with net personalty 1,882l. 8s. 5d.

Mr. James Kirkpatrick, chemist and druggist, 10 Terrace Road, Upton Manor, London E., who died on June 18, interests left estate valued at 841l.

race Road, Upton Manor, London E., who died on Junc 18, intestate, left estate valued at 8411.

MR. THOMAS FARRIES, Ph.C., F.I.C., F.C.S., Garstons, near Watford, who died on June 5, left estate of the gross value of 305,2081. I3s. 1d., of which 282,7061. 1s. 9d. is net personalty. Probate of the will has been granted to Mr. Henry Richard Arnold, 12 Coleman Street, E.C., chemist: Mr. Alfred Wills, solicitor; and Mr. Daniel Stewart Fripp, accountant. Subject to certain bequests, the testator left the residue of his estate in trust for his children or their issue, whom failing, as to one-half to his sister, Mrs. Stephenson; one-fourth in trust for his niece, Helen Sculphan; and one-fourth to his nephew, Reginald Gordon Halstead. Halstead.

Medicines for Rumania.—The "Drogenhändler" states that negotiations are pending between Germany and Rumania in regard to the delivery of large quantities of chemical and medicinal preparations. These articles are needed to cope with the epidemics now raging in Rumania.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted

42 Cannon Street, E.C. 4, August 29, 3 p.m.

THERE is little of interest to chronicle in the chemical and drug markets this week, and the speculation in produce like menthol and spices has died down, the latter having an easier tendency as a result of the lack of interest, this applying especially to pimento and cloves, which have declined. A few of the seeds like canary, cumin, and dill have attained higher levels; fenngreek has been dealt in at lower prices, but subsequently recovered. Madras finger turmeric has sold at higher rates. Star anise oil is firmer. Among chemicals, citric, tartaric acid, and cream of tartar are all firm. Milt-sugar is lower, and saccharin is firm, but quiet. Soda hyposulphite (ordinary) and arsenic are easier. Benzaldehyde and litaopone are lower. Aspirin is still scarce and inquired for, but is obtainable at previous prices. Phenazone is firmer: otherwise the demand for pharmaceutical chemicals is almost lifeless at the moment.

Higher	Firmer	Easier	Lower
Ammon. chloride Balsam tolu Calumba Canary-seed Cumin-seed Dill-seed Menthol Turmerio (Madras finger)	Anise oil, star Phenazone Safiron	Arsenic Fenugreek- seed Gallic acid Juniper oil Pepper Soda hypo- sulph. (ord.)	Benzaldehyde Benzoin (Sum.) Cloves Gum acacia Lithopone Milk-sugar Pimento Sarsaparilla (native)

Cablegram.

New York, August 28.—Business in drugs is active. Menthol is dearer at \$3.60. Ipecacuanha has advanced to \$3.35 for Cartagena. Mandrake-root is dearer at 10c., burdock at 18c., and elecampane at 9c. Gentian is cheaper at 16c., and balsam tolu is lower at \$1.5 per lb.

AGAR-AGAR is steady, with sales of No. 1 Kobe strip at 3s. 3d. to 3s 4d. per lb. on the spot.

ALMOND OIL remains very firm at the advance noted a fortnight ago; almonds continue to advance in price and supplies are difficult to obtain, as there are practically no imports. Finest ol. amygdalæ B.P. is 42. to 4s. 2d. per lb., as to quantity. Only small stocks of apricot-kernel oil are available, and pressers sell to their regular customers only in limited quantity at from 3s. to 3s. 2d. per lb. net.

AMMON. CHLORIDE is dearer, dealers asking 771. per ton for small crystals in casks.

ANISE.—Russian is quiet but steady at 77s. 6d. per cwt.

ANISE OIL, STAR.—The recent firmer tono seems to have induced some trade buying, and sales have been made at from 5s. to 5s. 3d., with 5s. 6d. asked for "Red Ship" brand on the spot.

Antimony.—There is distinctly more interest in crude ANTIMONY.—There is distinctly more interest in crude metal, which is dearer, a few parcels having been sold at 50l. per ton, and owing to the prevailing scarcity the sellers have since put up their terms to over 55l. There is, of course, nothing coming in owing to the prohibited imports. Japanese regulus is quoted up to 78l., but there is nothing doing. The tendency in America is firmer, although there are fair stocks there. are fair stocks there.

Arsenic.—The market has been irregular and easier, the relatively restricted offers not being sufficient to counteract the effect of the slow demand. Quotations are wider, relatively restricted offers not being sanderent to countrate the effect of the slow demand. Quotations are wider, ranging from about 96l. to 102l. per ton, according to quantity, for best white Cornish powder. The official maximum price across the Atlantic is 9 cents per lb., and the current output is at a slow progressive rate, while it is expected that producers will find no difficulty in securing that figure over the remainder of the year, as supplies are easily absorbed.

ASPIRIN.—There is a fair amount of inquiry, sellers still quoting 12s. 6d. to 12s. 9d. in cases, but in view of the comparative searcity some ask more. There appears to be a shortage of raw materials, of which the principal is acetic anhydride.

BAYBERRY-BARK is still very searce, 2s. 8d. being wanted for a limited quantity on spot.

BENZALDEHYDE free from chlorine is offered at the lower rate of from 16s. to 16s. 6d. per lb.

Benzoates.-Benzoic acid remains firm at from 19s. to 19s. 6d. per lb., and benzoate of soda is scarce and wanted

on the spot. CADMIUM.—The tone is very firm, and prices now range upward of 8s. per lb., there being a steady demand, but not much offering.

CALCIUM ACID PHOSPHATE for forward delivery can be had at 140l. per ton in kegs.

Camphor (Refined) is steady, with sales of Japanese 2½-lb. slabs on the spot at 4s. 9d., and buyers of 4-oz. tablets at 6s. per lb.

CANARY-SEED is dearer owing to scarcity; ordinary to good Morocco has been sold at 290s. to 300s. per quarter.

CARAWAY-SEED .- Ordinary Tunis is quoted 240s. per cwt. on the spot.

CHLOROPHYLL soluble in oil is offered at 40s. per lb. net on spot.

CITRIC ACID is firm at 3s. 6d. per lb. on the spot.

CLOVES have been quiet and rather lower, with spot sales at 3s. 1d., and further sellers.

COPPER SULPHATE.—Brokers and merchants have done a little business anticipatory of future export orders, but the trade generally is very quiet and featureless. Liverpool prices stand at from about 65l. to 65l. 10s. f.o.b., less 5 per cent. The export movement to France is well maintained. The Beard of Trade returns for July made a good showing, arounting in all to 3.576 tons or more than double the amounting in all to 3,576 tons, or more than double the tonnage for the same month last year. The home demand continues slack, with the price at 52*l*. per ton net at makers' works.

CORIANDER-SEED is unchanged at 62s, 6d, per ewt, for old crop and 67s, 6d, for new crop Morocco.

CREAM OF TARTAR.—Spot sales have been made at up to 425s. for 99 to 100 per cent. powder.

CUMIN-SEED is dearer, with sales of good Morocco at 60:.. per cwt.

Cutch is firm, with sellers at from 80s. to 82s. 6d. per cwt. on the spot.

DILL-SEED is dearer, after sales at 55s. per cwt.; for ordinary East India holders are asking 56s.

FARINA is firm, with sellers of No. 1 Japanese on the spot at 80s. to 81s. per cwt., as to quantity.

FENUGREEK-SEED .- Since our last report the price declined 2s. 6d. per cwt., but it has now recovered most of the fall.

GALLIC ACID.—Pure crystals are offered at from 5s. 6d. to 6s. per lb., according to seller.

GLAUEER'S SALT.—Present prices are: technical, 4l. 5s.; calcined, 16l.; pea crystals, 12l.; snow crystals, 13l. 10s. per ton, in bags.

GUM ACACIA is quiet, with sellers of fair Kordofan sorts at 82s. 6d. on the spot, and at 77s. 6d. per cwt. c.i.f. to

HEXAMINE is unaltered at from 9s. to 9s. 6d. per lb. on spot.

Hydroquinone is unaltered at 17s. 6d. per lb. in kegs. JUNIPER OIL is slightly easier, good berry being obtainable at from about 32s, to 33s., and juniper wood at from 7s. 6d.

to 10s., as to quality. LEMON OIL.—Spot holders now ask 4s. 3d. to 4s. 4d.

LIQUORICE-ROOT.—There is now a fair stock of natural, mostly of common quality, but good decorticated continues scarce, and is worth 165s on the spot. In the drug-auction 308 bags common thin natural were bought in at 120s.

LITHOPONE is offered at the cheaper rate of 61%. per ton for American on the spot.

METHYL SALICYLATE is obtainable at from 6s. to 7s. per lb. on the spot. Genuine oil of wintergreen is scarce, and rarely inquired for.

Milk-sugar.—Several responsible sellers are now offering American or Dutch at 4s. per lb. on the spot.

Orange-peel is slow of sale, with sellers of fair so-called Maltese strip at $2s. 7\frac{1}{2}d$. on the spot.

PEPPER.—Black Singapore is lower, with sellers at 2: 1d.; Tellicherry is also lower at 2s. 3d., and Aleppy at 2s. $2\frac{1}{2}d$. on the spot. White is steady, the spot value of Muntok being 3s. $7\frac{1}{2}d$.

PHENACETIN remains very quiet at from 18s. to 19s. per lb. on the spot.

PHENAZONE has a firmer tendency at from 46s. 6d. to 47s. 6d. per lb., according to seller and quantity.

PIMENTO shows a decline of about 2d. per lb. from its highest, spot sales having been made down to 7d.

PLATINUM.—It is reported that the Canadian Government has fixed the price at 21%. per oz.

QUICKSILVER.—As far as one can gather the market is widely divergent, while it is claimed that business is possible for special Class A requirements at 21l., and even less. but at the same time uncontrolled supplies command anything from 221. upward per bottle.

SACCHARIN is quiet, but firmly held, with buyers cautious. Business has been done in spot parcels of American 550 pure at from 262s, to 265s, per lb., duty unpaid, equal to 394s, to 397s, duty paid. Supplies from the U.S.A. are now ceasing, and although many applications are being made to import, we do not hear of any licences being granted. The largest suppliers on the spot are therefore gradually exhausting their supplies. It is reported that parcels held in reserve in the U.S.A., for which licences have not been granted, will be resold on that market on a profitable basis. SACCHARIN is quiet, but firmly held, with buyers cautious.

SAFFRON is firmer, best Valencia offering at 56s. per lb. net on spot.

Salicylates are unaltered, English or American salicylieacid powder offering at 4s. 6d. to 4s. 9d. per lb., and sodium-salicylate powder at from 6s. to 6s. 6d. per lb.

SALOL is offered at from 9s. 3d. to 9s. 6d. on the spot, as to seller.

SHELLAC has been quiet throughout, the usual standard TN Orange quality offering at from 335s. to 340s., good at 345s., and cakey AC Garnet at 330s., on the spot.

Soda Hyposulphite is rather lower, ordinary erystals offering in bags at 49l. 10s. per ton.

SPICES.—With an absence of business prices of pimento, cassia, ginger, and eloves are easier.

TARAXACUM. English is obtainable at 120s. per cwt.

Tartaric Acid is very firm at from 33. 6d. to 38. $6\frac{1}{2}d$. per lb. on the spot, powdered being particularly scarce.

THEOBEOMINE.—The pure alkaloid is offered in several quarters at 55s. per lb., and the sodium salicylate at from 40s. to 45s.

TURMERIC.—Small sales of Madras finger have been made on the spot at 142s. 6d. per cwt.; sellers of Cochin split bulbs quote 105s. and finger at 110s.

TURPENTINE is firm at 120s. per cwt. on the spot for American to permit-holders.

VALERIAN-ROOT.—Fair Indian is offered at 335s. on the spot. In the drug-auction 29 bales of Indian were retired at 360s., a sporting bid of 275s. being refused; and for 12 bags of Spanish 350s. was the buying-in price.

London Drug-auctions.

Commercial Sale Rooms,

Mineing Lane, E.C., August 29.
At the monthly auctions held to-day the trade demand At the monthly auctions held to-day the trade demand was quite small, as is usual at this season of the year. A feature was the surprisingly large amount of native Jamaica sarsaparilla and Sumatra benzoin offered, the quantities exceeding those offered in pre-war times. Curação and Cape aloes was quite neglected. Balsam tolu of new import realised dearer rates. Calumba sold at "record" prices, owing to extreme scarcity. Higher prices are asked for caseara sagrada. Ergot sold at very full prices, and for Sudan acaeia sorts rather easier rates were accepted. Honey was in somewhat reduced supply, but in good demand, and prices were steady. Ipecacuanha is flat, and the demand was filled with damaged goods. There was no demand for kola. Menthol sold in prize at easier rates than those paid privately, but when offered without reserve a full advance of 3d. was paid. Native Jamaiea sarsaparilla was in excessive supply, and declined from 6d. to 9d., while grey Jamaica was steady, Lima-Jamaiea of

ordinary quality being neglected. There was no demand for senna or beeswax. The following table shows the for senna or beeswax. The folloamount of goods offered and sold:

Offered Sold	Offered Sold
Aloes—	Honey→
Cape 20 0	Cuban 354 354
Curação 50 0	* Jamaica 8 8
Zanzibar, etc 12 0	San Domingo 3 3
Asafetida 4 0	Spanish (drms.) 14 0
Balsam tolu 13 6	Hydrastis 2 0
Benzoin, Sumatra 339 51	Kola 56 0
Calabar beans 55 4	Lime oil (W.I.) 11 0
Calumba 37 37	Liquorice-root 308 0
Cannab. ind. (Amer.) 10 0	Menthol 80 80
Do. (African) 14 0	Mint oil (Jap.) 60 60
Do. (E. I.) 4 0	Nux vomica 1.610 0
Cantharides 24 4	Olibanum 110 59
Cardamoms 15 0	Orange-peel 21 0
Cascara sagrada 100 0	Orris 56 0
Cascarilla 5 0	Pot. ferricyanide 3 0
Chaulmoogra oil (cs.) 2 0	Red sanders wood 13 0
Clnchona 1 1	Rhubarb 78 14
Cochineal 9 0	Rosemary-leaves 20 0
Coriander-seed 100 0	Sandalwood oil (cs.) 1 0
Cumin-seed 197 0	Sarsaparilla—
Dill seed 20 9	Grey Jamaica 15 9
Dragon's-blood 10 0	Lima-Jamaica 21 *2
Elemi 10 0	Native Jam 70 8
Ergot 10 7	Senna and pods-
Eucalyptus oil 20 0	Alex 108 0
Fennel-seed 231 0	Tinnevelly 232 3
Fenugreek-seed 40 0	Sloes, dried 4 0
Galls 4 0	Squill 134 0
Gamboge 10 0	Stavesacre-seed 8 0
Gentian 304 0	Strophanthus 50 0
Guaiacum 6 0	Tamarinds (W.I.) 24 0
Gum acacia 566 158	Tragacanth 6 0
Henbane 21 U	Valerian-root 29 0
Ipecacuanha—	Wax (bees')—
Matto Grosso 26 8	Abyssinian 267 25
Honey—	Chilian 25 0
Argentine 1 1	East Indian 163 0
Australian (cs.) 191 191	Mozambique 297 *20
*Sold p	rivately.

ALOES.—Quite neglected. A lot of 43 boxes Curação was ALOES.—Quite neglected. A lot of 45 boxes Curação was offered, the limit placed on fair liver being 130s, down to 115s. for ordinary. Of Cape, 20 cases were offered and bought in, 52s. being wanted for fair seconds. Of Mocha, 11 kegs offered, 60s, being wanted for common hard black. Balsam Tolu.—Dearer. Ten cases fair, but more or less drossy, offered, and six of the best sold at 10s. per lb.

Benzein.—The excessive quantity offered made buyers hesitate, and only a small quantity sold, at easier rates, comprising 30 cases of fair Sumatra seconds with bold seattered almonds at 9l. 17s. 6d., and 20 cases of good fair seconds at 1ll. 10s. A string of 214 cases was bought in, including ordinary thirds at 9l., good thirds at 9l. 15s., fair seconds 11l. 10s., and good seconds 12l. 5s. to 12l. 10s.

Calabar Beans.—A lot of 55 bags medium to bold good bright was bought in at 1s., and four bags of fair sold without reserve at 7d. per lb.

Calumba.—The extreme scarcity resulted in the "record" figure of from 402s. 6d. to 405s. per ewt. being paid for 37 bags of good fair small to bold natural sorts per parcelpost from Bombay.

Cannabis Indica.—Genuine Bombay tops was available at 17s. 6d., American at 18s., and African at from 3s. to 3s. 9d.

Cantharides.—Fair Chinese were limited at 4s. 6d. per lb., at which private sales are being made, and for four cases of ordinary dusty 4s. 3d. per lb. was accepted.

CASCARA SAGRADA.—A lot of 100 bags fair thin was limited

at 170s, per cwt.

Cascarilla.—Five bales offered, of which three eonsisted of fair brown quill, for which 220s, per cwt. was asked, the broker intimating private sales at this price.

CHAULMOOGRA OIL.—For two eases of fair the buying-in price was 4s. 6d., but rather less would be accepted. CINCHONA .- A single bale of thin Guayaquil quill sold at

1s. per lb, for country-damaged without reserve.

ERGOT.—The price of 5s. 6d. was established in auction, when seven bags of fair sound Spanish sold at this figure.

EUCALVPTUS OIL.—Twenty cases, containing 65 per cent. eucalyptol, were limited at 2s. 7d.

FENNEL-SEED.—A lot of 176 bags fair East Indian offered in prize, and were bought in at 55s. per cwt.

Galls.-Four bags of small to medium Persian blue were bought in at 350s, per cwt.

GUALACUM.—Rather dearer; fair lump was limited at 5s. per lb.

Gum Acacia was easier, 100 bags of fair glassy Sudan sorts selling at 80s. per cwt., and for four packages of Aden pickings and siftings from 42s. to 44s. was paid. A lot

of 172 bags Senegal offered, of which 54 sold at from 75s. to 82s. A lot of 135 bags part woody Ghatti was limited at 175s. per cwt.

175s. per cwt.

HONEY.—Supplies were on a reduced scale compared with the previous auction, and with a good demand prices were about steady, the following rates being paid: Jamaica.— Eight barrels offered and sold, comprising good brown liquid and setting at 200s. to 201s. Cuban.—354 casks offered and sold, comprising fair amber liquid, 192s. to 193s.; darkish to fair brown liquid, 185s. to 191s. (ullaged, 171s. to 179s.); and ordinary brown liquid, 175s. to 185s. Australian.—191 cases offered and sold, comprising good brown liquid to pale set, 196s. to 197s. San Domingo.—Three casks offered and sold at 185s. Aventine.—One case offered and offered and sold at 185s. Argentine.—One case offered and sold at 207s. for good liquid amber. Spanish.—Fourteen drums offered and bought in.

IPECACUANHA is quiet, the only sales consisting of damaged, eight bales of which realised from 8s. 11d. to 9s. 7d. for water-damaged and partly mouldy. Fair sound bright is held at 11s. Privately the market has been very quiet for some weeks past, 11s. being asked for fair sound Matto Grosso, of which there is a stock of practically 600 bales in London. In spite of this, export-licences for a few hundredweight for France have this week been refused.

Kola.—For 50 bags of good bright sound West African quarters 1s. 2d. was the retiral price. A further six bags of Antiguan were held at 9d. for bold dull, part mouldy.

LIME OIL.—For 11 cases of West Indian distilled 7s. per lb.

is wanted.

Menthol.—A lot of 60 cases (in prize), comprising 30 cases Suzuki, sold at from 15s. 6d. to 15s. 7d., 15 cases Kobayashi at 15s. 9d., and 15 cases Yazawa at 15s. 1d. to 15s. 2d. per lb. Later in the auction 20 cases Suzuki sold without reserve at 16s. 3d. Privately the market has been quiet, with spot sales at up to 16s. for Kobayashi-Suzuki.

MINT OIL.—A lot of 60 cases of Japanese dementholised, comprising 40 cases Suzuki, sold (in prize) at from 3s. 11d. to 4s. 1d., and 20 cases Yazawa at 4s. per lb. Privately the market has been quiet, but firm, with spot sales of Kobayashi-Suzuki at 4s. 6d. per lb. and October-November shipment at 4s. 3d. c. if

shipment at 4s. 3d. c.i.f.

OLIBANUM.—Various lots, comprising 59 packages of seadamaged, sold at from 16s. to 80s. per owt. without reserve. RHUBARB.—Quiet; 14 cases of good Canton pickings sold at 1s. 10d. per lb. For bold round Shensi with three-quarters good pinky fracture the limit was 2s. 9d., and druggists' trimming root was available at 2s. 6d., which price was also asked for Canton, trimming root. No Highdried offered.

Sarsaparlia.—Grey Jamaica, of which 15 bales offered, was steady, eight bales of good selling at 5s. 6d., and a bale of sea-damaged went at 5s. 1d. Of Lima-Jamaica 21 bales offered, of which two had been sold privately, and for five bales a bid of 4s. 6d. is to be submitted for common, the asking price of the remainder being 5s. The large quantity of 70 bales native Lamaica offered and metavithe near asking price of the remainder being 5s. The large quantity of 70 bales native Jamaica offered and met with a poor demand, only eight bales being disposed of at a reduction of about 6d. to 9d. per lb., 3s. 8d. being accepted for fair red and 3s. for dull red and grey, part mouldy.

Scammony-Root.—A lot of 10 bags, analysing 19.2 per cent., was limited at 1s. 6d. per lb.

SENNA.—Quite neglected. For ordinary small to medium yellowish Tinnevelly leaf 4d. was wanted. pods being held at 4½d. for dark; two bales of ordinary sold without reserve at 3½d.

SQUILL remains plentiful, and for fair to good pale from 60s. to 70s. is wanted, with inferior to common offering at from 40s. to 50s.

TAMARINDS.—A parcel of 24 casks West Indian, lying in Liverpool, was retired at 140s. per cwt. in bond.

Wax, Bees', met with practically no demand, only 25 bags being sold at 9l. 10s. for good yellow and brown Abyssinian block. Twenty bags of Mozambique have been sold privately, the value of good brown being 9l. 15s.

Dominican Trade in Limes.

In a recent number of the Barbados "Agricultural News," some interesting notes are given on the lime-industry, from which we gather that almost every lime consumed in New York comes at present from Dominica, a condition that is considered will not be long continued, as the state of the American will should have be a condition that the American will should have a state of the Barbados "Agricultural News," some interesting notes are given on the lime-industry, from which we gather that almost every lime consumed in New York comes at present from Dominica, a condition that is considered will not be long continued, the state of the Barbados should be supported by the state of the Barbados should be supported by the state of the Barbados should be supported by the state of the Barbados should be supported by the state of the Barbados should be supported by the state of the Barbados should be supported by the state of the Barbados should be supported by the state of the Barbados should be supported by the state of the Barbados should be supported by the state of the Barbados should be supported by the state of the state o as it is probable that the Americans will shortly develop the industry in tropical American territory. Large areas, it is stated, are being put under lime culture in Porto Rico, and, considering that Porto Rico is at least a day or two nearer New York than Dominica, it is quite possible that a Porto Rico extension of this andustry may have an injurious effect upon the

The demand will, no doubt, continue there will be room for fruit from Cominiea trade. Cominica trade. The demand will, no doubt, continue to expand, and there will be room for fruit from both islands, but it is almost certain that limes from Porto Rico would be placed on the New York market in a better condition than those from Dominica. A very high percentage of the fruit might reach the consumers in a perfectly green condition, and not in a yellow and sometimes quite over-ripe state. It is further said that "the American, like the West Indian, knows the difference between a green." over-ripe state. It is further said that "the American, like the West Indian, knows the difference between a green and a yellow lime in a beverage. The flavour of the green rind is a very important factor, therefore a green lime is preferred and will command a better price." It would be well for Dominica shippers to give these facts careful consideration. Meanwhile every care should be taken to ship only sound, well-graded, and freshly picked green limes, in order to maintain as high a standard as possible in the New York market, for the Dominica fruit is at present recognised, when compared with limes from other places, as superior to all others.

Tuscany Borax and Boric Acid.

In the September number of "La Science et la Vie," Signor Funaioli, engineer of the Società Boracifera di Lardarello, gives an interesting account (which is published in "Nature") of the utilisation of the natural steam from the volcanic area of Tuscany, and of the manufacture of boric acid and borax. The nighly saturated steam issues from the ground often at fairly high pressures, but for purposes of conversion it is utilised for heating a series of tubes containing water, the steam-pressure in these tubes being two atmospheres (say, 30 lb. per sq. in.). The steam drives low-pressure turbines, which in turn are coupled to alternators. The steam and water of these "soffion," as they are termed in the vernacular, contain quantities of borie acid, which is concentrated in a special apparatus and gives a product of about 99 per cent. purity. The acid, treated with sodium carbonate, gives borax, which is manufactured in the form of crystals and powder. Ammonium carbonate is also manufactured, the carbonic In the September number of "La Seience et la Vie," Ammonium carbonate is also manufactured, the carbonic Ammonium carbonate is also manufactured, the carbonic acid necessary for the process being also derived from the "soffioni." Professor Nasini, the chemist in charge of the research department of the establishment, is now carrying out investigations on the radio-activity of the gases of the "soffioni," and on the separation of the helium, which is another element present.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the Ports of London and Liverpool:

To London

(August 17 to 23).

Bronze powder, 2 cs. Casein, 7351. Chemical products, etc., unrated, 5 cs. Calcium citrate, 179

cks. Formaldehyde, 136

brls. Milk-sugar, 100 cs.

Saltpetre, 2,000 cwt. Soda, unrated, 2 cwt. Dental goods, 4,000*l*. Dressings, surgical,

Dental got.
Dressings, surg
125l.
125l.
40cs.

125t.
Drugs, etc., unrateu,
1,525l.
Anise oil, star, 40 cs.
Henbane, 22 bls.
Ipecacuanha, 40 bls.
Papain, 20 cs.
Overstuffs, dyeing

Papain, 20 cs.
Dyestuffs, dyeing
materials, etc., unrated, 3 brls.; dyewood ext., 108 brls.;
indigo, 26 chts.;
indigo, 26 chts.;
indigo, 26 chts.;
mimosa-bark ext.,
4,361 bgs.; myrobalans, 1,907 pockets
667 bgs.; tanners'
bark, 2,082 tons;
wattle-bark ext.
7,180 bgs.

7,180 bgs. Gelatin, 1,731*l*. Loofahs, 221*l*.

Perfumery, unrated,

Plumbago, 24,184 bgs. 169 brls. Starches (cwt.): farina, 6,266; potato, 6,595

Wax, bees', 48 bls. 48 cs.; 67 bgs.

ax, paraffin, scale, 1,220 cwt. Wax.

To Liverpool

(August 19 to 24).

Chemical products, etc.
Argol, 420 bgs.
Calcium borate,

7,212 bgs.

Calcium citrate, 44 cks. Carbon black, 3,788l.

Cream of tartar, 10 cks.

Iodine, 840 kgs.

Magnes. sulph., 10 bgs. Methyl salicyl., 5 cs.

Milk-sugar, 40 brls. Orpiment, 5 cs. Potash chlorate, 100

kgs. Soda nitrate, 85,057

Soda nitrate, 85,057 b gs.
Drugs, etc.: herbs, medicinal, 38 bls.
Anise, 40 bgs.
Anise, star, 5 cs.
Araroba, 20 cs.
Chamomiles, 210 bgs.
Copaiba, 25 cs.

Ergot, 14 sacks 18 bgs. Galls, 25 cs. Gentian, 515 bgs.

Liquorice-root,

Nux vomica, 1,610 pockets Quillaia, 502 bls.

Sarsaparilla, 6 pkgs. Squill, 25 bgs.

Turmeric, 5 cs.

Dyes, dyeing and tanning materials: chestnut tanning ext.,

chestnut tanning ext., 7,641 bgs.; cutch, 100 bxs. 28 bls.; indigo, 4 chts.; logwood ext., 10 cks., logwood liquor, 20 cks.; myrobalans, 16,073 pockets 4,342 bgs.

bgs. Loofahs, 28 bls. Starches (bags), 2,000; farina, 15,671;

farina, 15,671; potato, 17 Tale, 1,700 bgs. and 39 tons

Wax, bees', 208 bgs. 42 cs.

Wax, candelilla, 127 bgs. Wax, carnauba, 65 bgs.

Wax, paraffin, 1,898 bgs. 236 brls.; scale, 4,770 brls. 719 pkgs. Zinc oxide, 915 brls.

CANADIAN EXPORTS .- During the nine months ended December 31, 1917, Canada exported drugs, dycs, chemicals, and medicines valued at \$10,203,160, compared with \$6,991,191 during the corresponding period of 1916. America was the largest buyer, and cyanamide was the biggest item in point of value—\$1,359,471.

British Chemical Trades Association.

THE GENERAL MEETING of this Association was held on August 21 at the Great Eastern Hotel, London, and was well attended. Mr. William Mann (President), who was in the chair, said the meeting had been called to mark the end of the provisional stage of the Association and to obtain the sanction of the members for the arrangement was a few placing the Association and provided for placing the Association and a premanent basis. obtain the sanction of the members for the arrangement made for placing the Association on a permanent basis. The Chairman gave a summary of the work that had already been accomplished by the Provisional Committee, which has now been in existence for six months. It has drafted the articles of association, and has organised the centralisation very considerably in the way of forming sectional trade Committees for dealing with particular branches, the first one created being the Glue and Gelatine Committee, under the chairmanship of Mr. H. J. Bridger (O. Murray & Co., Ltd.). The Chairman pointed out that the problems and difficulties created by the war might well become the problems of post-war conditions, and arising become the problems of post-war conditions, and arising out of these difficulties there was a marked tendency on out of these difficulties there was a marked tendency on the part of certain Government Departments towards the elimination of the merchant. It was unnecessary to speak of how essential the merchant is as a distributor and financier under normal conditions of trade, and those self-same Government Departments have tacitly admitted the indispensability of the merchant on the occasions when—perhaps as a last resource—they have been compelled to make use of his services, his experience, and frequently his capital. This tendency to eliminate the merchant has shown itself in many ways, but in perhaps none so clearly as on the question of export-licences. He would only deal with one group of products with which they were intimately concerned in regard to export-licences—viz., caustic soda, soda ash, and other alkali products. There was a time when licences were obtained with some facility, even by merchants; but a time came when decisions were withheld for several months, and in some cases as long as ninemonths. Many reasons were given for the attitude of the licensing Committees—conflicting reasons, which were mutually destructive if they were not destroyed by fact. One was the allegation of a shortage of supplies, but no convincing evidence was ever adduced in support of that contention, and it is within the knowledge of all of them that the facts proved to the contrary. Ultimately a decision was arrived at that licences would only be granted to merchants if applications were accompanied by manufacturers' certificates guaranteeing that the goods had been sold for the particular market to which export was desired. the part of certain Government Departments towards the certificates guaranteeing that the goods had been facturers' certificates guaranteeing that the goods had been sold for the particular market to which export was desired. None of them objected to control, even if it were only remotely in the national interest; but they had the right to protest, and did protest, when the policy adopted by a Control Department seemed to have no other object than to benefit a small but powerful group at the expense of other trade interests.

Dealing with the more permanent objects of the Associa-tion, the President referred to standardised forms of con-

trect and rules of arbitration and appeal.

The correspondence the Association has had with the War Trado Department and the Board of Trade with regard to export-licences for caustic soda and other alkali products was read, and the following resolution was passed:

ducts was read, and the following resolution was passed:

This meeting, having heard and read the correspondence between the War Trade Department and this Association relative to the question of export-licences for caustic soda and soda ash and other alkali products, protests against the attitude of the War Trade Department, and particularly their refusal (1) to receive a deputation; (2) to permit the Association to nominate expert trade representatives to act in conjunction with their present advisers. This meeting instructs the Committee to press the War Trade Department to receive a deputation to discuss the Question of the appointment of advisers nominated by this Association, and to call a general meeting within one month from this day to report progress. The Committee are further instructed to forward a copy of this resolution to the Board of Trade, the Ministry of Munitions, and the War Trade Department.

ment.

The election of officers then took place, and the following were declared elected: President, W. Mann (Mann & Cook); Vice-President, H. Slater (Perry, Mills & Co.); Hon. Secretary, S. J. C. Mason (The Fabra Co., Ltd.); Hon. Treasurer, A. J. B. Arnold (Horace Battin & Co., Ltd.); Committee, I. Keene (The Keene Co.). W. C. Castle (John Batt & Co., London), Ltd.), F. W. Powell (F. W. Powell & Co.). D. J. Truscott (D. J. Truscott & Co.). H. J. Bridger (O. Murray & Co., Ltd.), R. J. D. Roff (Thornett & Fehr), James C. Barr (J. C. Barr, Ltd.), Walter Dexter (Dexters, Ltd.), W. T. Allen (Allen Harding & Co., Ltd.), F. R. Lankshear (Lankshear, Wickstead & Co., Ltd.), A. J. Barnett (A. J. Barnett & Co., Ltd.), C. C. Bryce (Bryce, Robarts & Co.).



The Adjustment of Profit.

SIR,-The following articles were recently advanced in

Euthymol tooth-paste, former retail 1s., now 1s. 3d.

", ", to chemists, 8s. 1d., now 10s. 2d.

Kolynos tooth-paste, former retail 1s., now 1s. 3d. to chemists 9s., now 12s.

May I take this opportunity of calling attention to what appears a somewhat unfair way of treating the retail chemist when fixing new prices? We are witnessing the almost daily advancing of this or that popular proprietary. chemist when fixing new prices? We are witnessing the almost daily advancing of this or that popular proprietary. Is it fair to advance the retail price and at the same time advance the price to the chemist by the amount of the full difference between the old and the new price to the public, which means, of course, a substantial reduction in the percentage margin of profit yielded the retailer? It is the retailer who has to explain to the public why these prices are advanced—additional cost of labour, containers, living, and the like. He can wax eloquent and convince his customers, because these things apply equally in his own business. Is he not, however, justified in feeling profound discontent, nay, resentment, that the proprietor, when he thinks fit to advance prices to admit of the defraying of his own added costs, not only ignores the retailer's similar need of a larger margin, but actually reduces the retailer's profit from what it was? The proprietors of Kolynos toothpaste, in advancing the retail price to 1s. 3d. and the wholesalo to 12s., reduce the gross profit to the chemist from 25 per cent. to 20 per cent. I have ventured to compare this with the action of the proprietors of Euthymol tooth-paste, because the two advances occur within a week or two of one another, and it will be seen that in the case of Euthymol the proprietors are careful not to reduce the percentage margin. Is it conceivable that the point has altogether escaped the attention of not only the Kolynos proprietors, but also those members of the Proprietary Articles Trade Association Committee who are looking after the interests of the retail members? It is interesting to not proprietors, but also those members of the Proprietary Articles Trade Association Committee who are looking after the interests of the retail members? It is interesting to note that the price to the wholesalers has been advanced from 97s. 2d. per gross to 129s. 7d. per gross, which leaves them the clean 10 per cent, in each case. The following scale shows Kolynos margins more clearly:

Was Now Retail 1s. 18. 3d. To chemists 9s.12s. Difference 34. 3s... ... 20% Gross profit 25 % To wholesalers 97s. 2d. 129s. 7d. ... Difference ... 10s. 10d. 14s. 5d. Gross profit 10 % 10 % (In all cases 3s. 6d. gross cash discount is allowed.)

I should like to see a spirited appeal from the retail trade to the proprietors of Kolynos and the Proprietary Articles Trade Association against this reduction of margin to the retail chemist, whose expenses have increased in proportion quite as much as wholesalers, and quite as much as have those of manufacturers.—Yours, etc.,

Profit and Loss. (144/7.)

Elliman's Embroglio.

SIR,—I have read the statements of Messrs, Elliman respecting the assertion made at P.A.T.A. meeting on July 11 in regard to the reduction of profit on their embrocation. I was the member who brought the matter forward, and claim the figures submitted were substantially correct. It is reported that I said the profit was reduced (in rourd figures) from 17 per cent. to 11 per cent., and Messrs. Elliman complain in their statement: (a) "Not one member of the Council questioned the accuracy of the statement made." I allude to the retailer who buys in small quantities from wholesale, houses, and this is how the figures were arrived at:

Previous to Man 1.

Previous to May 1. Elliman's costs 1s. 0_4^3d .; the price on label is 1s. 3d.; that is 2_4^4d . profit on an outlay of 1s. 0_4^3d ., equal to 17_{17}^{17} per cent.

The new prices after May 1.

Elliman's costs 1s. 7d.; the price on label is 1s. 9d.; that is 2d. profit on an outlay of 1s. 7d., equal to 10\frac{1}{10} per

It will thus be seen that my round figures of 11 per cent. showed a more favourable profit than actually occurs. It

is not sufficient or a solution of the question for Messrs. is not sufficient or a solution of the question for Messrs. Elliman to assert that some retailers sold the article at 1s. 2d.; my figures refer to what I and most others sold it for, it being the advertised price and so printed on the label. If it is correct to make a reduction of 1d. on the bottle at 1s. 3d., to be consistent at the same ratio 1\(\frac{1}{2}\) would have to be deducted from the bottle at 1s. 9d. It is very satisfactory to know that the high-handed action displayed towards certain wholesale houses by Messrs. Elliman has been taken up by wholesalers generally, and equally nas been taken up by wholesalers generally, and equally so to know that retailers are joining hands and refusing to sell the article under present conditions. "Face value" is undoubtedly the popular demand, but must be accompanied with "adequate profit." Now is the opportune occasion for retailers to assert their just demands, and refuse to stock it unless at least 20 per cent. is assured. A few years ago there was much discussion on establishment has been taken up by wholesalers generally, and equally to stock it unless at least 20 per cent. is assured. A few years ago there was much discussion on establishment charges; add to these the interest on capital and remuneration for proprietor: can 10½ per cent, be called an adequate profit? Now that Messrs. Elliman have laid down the challenge, I hope the craft generally will respond to it. It is a coincidence that the name of Mr. Elliman occurs as the first President of the P.A.T.A., and presumably at that time he was in sympathy with the fairness and objects of the Association. It was this circumstance that induced me to frame the resolution and draw Messrs. Elliman's attention to the profit on their article.

Yours faithfully,

Kingston-on-Thames.

ALFRED Higgs, J.P.

ALFRED HIGGS, J.P. Kingston-on-Thames

SIR,—In your note re the profits on Elliman's Embrocation (C. & D. August 24, p. 43) you do not take into consideration the fact that carriage from Slough has to be paid by retailer. In this particular Elliman's differs from most other proprietaries when bought on "best terms."

Yours truly,

Selly Oak.

Selly Oak.

What is a "Saline Taste"?

SIR,—The Pharmacopæia and most other books describe sodium salicylate as having a "saline taste." As applied to taste, the word "saline" undoubtedly means a taste resembling that of sodium chloride. Now, sodium salicylate has no saline taste in that sense of the words. The taste might be described as "sweetish, alkaline, inclining to bitter"; certainly not as "saline." It is an example of a lax use of descriptive words which is better avoided.

Yours, etc., D. B. Dott. Edinburgh.

The Luxury Tax.

SIR,—I cordially agree with "Xrayser II." that certain perfumery articles ought not to be subject to the luxuryperfumery articles ought not to be subject to the luxury-rax. Lavender-water and eau-de-Cologne are much used and tried articles which have proved invaluable for the sick-room. One of my earliest recollections was the use my mother made of these. When we as children suffered from headache she invariably mixed one of them with a little water in a saucer, dipped a handkerchief in and laid it across the aching brow. Relief seemed to come imme-diately, and I never either make or handle these articles without it bringing back refreshing memories of over fifty years ago. There is no more effectual and pleasant remedy years ago. There is no more effectual and pleasant remedy for a common cold at its commencement than a few drops of formalin put into some eau-de-Cologne, then sprinkled on a pocket-handkerehief and inhaled occasionally.

Yours truly,
U. AYLMER COATES.

Non-proprietor Pharmaeists. Non-proprietor Pharmaeists.

Sia,—Opportunities will shortly be forthcoming in which the non-proprietor pharmaeist will be able to show that the war has changed his outlook, and that he realises the pressing and vital need for an active and vigorous trade organisation to preserve his trade privileges by right of qualification and to raise his social status, just as that of others is being raised. This country has a colossal operation to face one day in a regular and orderly disoandment of its military Forces, and in the displacement and re-grouping of its man-power and female labour. The Government, realising that the period of preparation will occupy considerable time, is already grappling with the Government, realising that the period of preparation will occupy considerable time, is already grappling with the problem, and foresees that without organisation in an industry their task will prove an almost impossible one. Such, then, is his country's dilemma that for the pharmacist what must be would much better be done voluntarily. On these other counts the Shop-assistants' Union, having a national organisation, is proving very successful in its agitation for an extension of the Trades Board Act to the distributive trades—i.e., a compulsory trademnionism. To most men it is clear that this would be for the Government an excellent way out of many of their the Government an excellent way out of many of their difficulties, particularly with those trades which do not display the vitality to organise themselves on the lines recommended by the Parliamentary Committee in the Whit-

ley Reports. But the trade that waits to be compulsorily ley Reports. But the trade that waits to be compulsorily organised is going to suffer badly; in considerations of social status it will probably be ignored, and the local Labour Exchanges will doubtless become its centres of employment. It is necessary to bring it home to the average non-proprietor pharmacist that trade organisation does not mean disloyalty to his employer. On the contrary, it is a protection against unfair competition for a good and honest employer anxious to better working conditions, stabilises an industry, eliminates pernicious and good and nonest employer anxious to better working conditions, stabilises an industry, eliminates pernicious and wasteful competition and unfriendly rivalry. Assured a backing by the rank-and-file, there are several well-known men in pharmacy (non-propriotors themselves) prepared to assist in organising sections comprising groups made up from each class of assistant—big store, chain store, public-institution men, qualified and unqualified.

Yours faithfully Yours faithfully, W. GREENFIELD.

115 Putney Bridge Road, London, S.W. 15.

Demobilisation Problems.

Demobilisation Problems.

SIR,—The letter in the C. & D., August 3, p. 51, signed "R.A.M.C.," deals with one aspect of the difficulties that will be met by men of our calling after the war. The Pharmaceutical Society will surely make the way of men desirous of qualifying as easy as possible. There are, however, considerable numbers of men already fully qualified who have been giving their services to the country, at considerable personal sacrifice, for four, three, or two years, during which time they have been out of touch with all things pharmaceutical. Consequently they will have become rusty, and will find it difficult to take up their profession again. For them the Society should prepare to give a short "refresher" course at the Square, and, in addition to the usual subjects, should provide a few lectures on the commercial side of the business by a competent, practical man, dealing with the cost of drugs, galenicals, proprietaries, sundries, etc., and the changes in prices and markets generally. Pharmacy as a whole owes this, at least, to those who have borne the burden for us, and will not grudge the cost or trouble.

Yours faithfully,
Folkestone.

Folkestone. FRANK C. JONES.

SIR,—I was pleased to read the sympathetic note of "Xrayser II." on the matter of the demobilised. I gather that the writer is more sympathetic than he says. I, for one, would certainly go much further than a mere division of the examination or even a modification. I remember the of the examination or even a modification. I remember the general amnesty of 1853, and I see no reason why history should not repeat itself to a reasonable point and on a reasonable scale. It happens that I qualified forty-five years ago, but it is also a fact that some of the best men I have known and worked with have been men without diplomas. Men who have been in the trade for many years are for the most part competent to run a pharmacy and discensary. I would make a clean jet of it and admit years are for the most part competent to run a pharmacy and dispensary. I would make a clean job of it and admit those who can show a clear course of years devoted to the practice of our business. Some of these men will have been years out of the country on State service, they will come back "fed up" and not so enthusiastic that a curriculum would appeal to them. It is like offering a stone in response to a request for the staff of life. If the Council cannot be unhesitatingly liberal I would ask them to leave it alone. Presumably difficulties might arise in regard to the Army compounder. If anything were done regard to the Army compounder. If anything were done, therefore, I would stick tightly to the one important test, so many years of service behind the counter. the counter.
Yours faithfully,
J. PIKE.

Nottingham,

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Jay Macksims

(As he Writes them).

1. When men or nations stand still instead of progressthey "pay the price"—after thirty years a big price.

2. Examples: King Charles and his head; the Church and Wesley; England up to 1915; and the Pharmaceutical

and wesley; England up to 1919; and the Pharmaceutical Society 1835-1918.

3. "There's no punishment in this life—merely consequences," and our trade is reaping the consequences now of neglect of labour during the last twenty-five or thirty

4. Keep going that Face Value Committee; call it Reform Committee. Two jobs: National Service and Exams.

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

Lex (133/48).—Is there any law which requires a chemist's apprentice to work a minimum number of hours per day in the absence of a special provision upon this point in the deed of apprenticeship? [Although the Employment of Children Act, Shops Act, and other statutes limit the number of hours during which children and young persons may be employed, we know of no law which compels an apprentice to work a minimum number of hours per day in the absence of an agreement upon the point. (See p. 36.)]

Active Service (160/3) was assessed to income-tax for the year ending April 5, 1918, on the average of the previous three years' profits, and he accepted the assessment. The tax was payable in two instalments, one on January 1, 1918, and the other on July 1. After paying the first instalment he was called up for active service, and in January last he sold both his businesses, so as to be able to join up. He is now being called upon to pay the second instalment. As he was not in business during the whole of the tax year, he wishes to know if he can have any adjustment or relief for the part of the year, January to April, during which he ceased to be in business. [As this is not a case of cessation of business, strictly speaking, but is a change of proprietorship, it does not fall into the rule which allows a rebate for the portion of the year; an income-tax assessment of this kind is on the business itself. We think that the proper course for "Active Service" to pursue would be to apply at once to the local Commissioners of Income Tax for the district in which he was assessed to adjust the assessment, so that his successor or successors in the businesses would be charged a proportion of the tax corresponding to the profits made between the time when he sold and April 5, and he should get relief to that extent from what he has to pay. The application should be made to the Clerk to the General Commissioners of Income Tax for the district, and a copy ought to be sent to the local Surveyor of Taxes. If the actual profits have fallen below the three years' average because "Active Service" was called up, this would also be a ground for asking for a readjustment of the whole year's assessment.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and now. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

G. P. & S. (148/38).—FLY-SPRAY LIQUID.—There is received information available as to the composition of the popular fly-spraying liquids. You will, however, be able to make an efficient spray by employing as a basis formalin, which has a deadly effect on flies. A good plan is to make an infusion of sassafras chips, and when cold add to it formalin to make a 1-in-20 solution.

W. J. D. (138/73).—SACCHARIN DILUENTS.—The dilucnts employed for saccharin are sugar, milk-sugar, pure dextrin, sodium sulphate, etc. The choice of soluble substances without medicinal effect is not large, but a few experiments will help you. You will require to decide first of all what degree of dilution you desire, remembering that 14 gr. of saccharin equals a pound of sugar, and it requires 7 gr. of sodium bicarbonate to render it soluble.

W. E. B. (150/39).—Books on Oils and Fars.—The standard work is Lewkowitsch's "Chemical Technology and Analysis of Oils, Fats, and Waxes," 3 vols. (Macmillan, 75s.). A more condensed work is Alder Wright's "Fixed Oils, Fats, Butters, and Waxes" (Griffin, 25s.), although it is not so recent as Lewkowitsch's book.

W. J. (152/11).—Moth-deterrents.—We believe that benzene is one of the most effective of the moth-deterrents in general use; that is why upholstered articles cleaned with benzene are generally immune from attacks of moth. Naphthalene has an objectionable smell for use in rooms, but para-dichlorbenzene, which should be available as a by-product in the manufacture of picric acid, can be employed instead. Para-dichlorbenzene is camphoraceous in odour and has a powerful destructive action on certain lower forms of life. The smell of the substance is readily removed by exposing the article upon which it has been used to sunlight.

T. H. H. F. (154/56).—(1) WHITE PAINT:

White lead, in powder 9 lb.
Patent dryers 4 oz.

Grind the white lead with part of the oil until a perfectly smooth paste results; then add the dryers, previously thinned with oil, and the remainder of the ingredients.

(2) Patent Dryers are usually a complicated mixture of sugar of lead, zinc sulphate, barytes, etc., but the following is a simple formula:

| Zinc carbonate 25 lb. |
| Manganese borate 2 lb. |
| Linsecd oil 25 lb. |
| Grind together.

(3) WHITE HARD VARNISH:

THE CHEMIST AND DRUGGIST

 Sandarac
 ...
 ...
 12 lb.

 Resin
 ...
 ...
 8 lb.

 Turpentine
 ...
 1 gal.

 Methylated spirit
 ...
 3 gal.

 ssolve
 ...

A. B. C. (82/49).—(1) WHITE EMBROCATION.—The use of eggs in liniments is not permissible at the present time, owing to an Order of the Food Controller, but we believe some makers employ a quality of Chinese liquid eggs which is normally used for currying leather, but is not sufficiently pure for use as food. When we referred to the use of soft soap as an emulsifying agent in place of eggs, we had in mind a liniment of the type of lin. terebinthinæ, P.B., which is a useful model for an embrocation free from edible fats or eggs. (2) Treatment of Husk in Sheep.—Terebene is used as an intertracheal injection by veterinary surgeons in the treatment of husk, and it is also given in the form of a draught, such as the following:

 Terebeni
 ...
 ...
 3j.

 Ol. lini
 ...
 5ij.

 Tinct. asafetid.
 ...
 3j.

 Ol. caryoph.
 ...
 gtt. v.

Mix. Administer in linseed gruel or beer every three days.

F. B. (137/66).—BOOKS ON DISEASES OF HORSES.—F. T. Barton's "Veterinary Manual for Horse Owners" (Everett, 1902); Barton's "The Horse: Ailments and Accidents" (Appleton, 1907, 2s. 6d.): Captain H. M. Hayes's "Veterinary Notes for Horse Owners" (Hurst & Blackett).

J. H. (158/12).—Hunt's Picture of the old Oxford Street laboratory of John Bell & Co. was reproduced in The Chemist and Druggist, July 30, 1898, when we dealt with the centenary of that firm, and gave Hunt's picture with the companion etching of Macbeth.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Aug. 15, 1868.

Dispensing does not Pay.

On the other hand, we have the enthusiastic young beginner with all his chemistry, materia medica, and botany oozing out of his very finger ends. . . . He has fitted up his establishment in the best taste, and at one time almost thought of substituting a wire blind for the usual display of pharmaceutical 'accessories seen in the windovs of first-class pharmacies. In any case, he will have nothing to do with unprofessional adjuncts; and advertising is an abomination in his eyes. He has even sworn an oath, on all the three volumes of his Pereira, that no consideration of profit shall ever induce him to sell a tooth brush or a scent bottle; and the pots of medicated hair nourisher, standing in the glass case on the counter, give him the cold shivers every time he catches sight of their yellow contents. . . Gradually, however, he awakens from his high and dry dream, and finds that dispensing and drug selling alone does not pay. He thinks he will try a scent bottle or two, and a few very good tooth brushes. The warm weather is coming on, and he places a few bottles of fruit syrups on the counter. He suddenly discovers that black is very expensive wear, that a white choker is not becoming, and that a gossin about the last thunder storm with rich old ladies, or, indeed, young ones, whose principal business in life is to kill time, will sometimes increase the day's takings in a very pleasant manner. In fact, as he grows older, he finds that neither he nor any other beginner can make a living out of dispensing alone, and that to make both ends meet, to say nothing of their lapping over, he must keep a shop as well as a pharmacy, and become a trader in the strictest sense of the term.

The Military Value of Pelmanism.

By MAJ.-GEN. SIR F. MAURICE, K.C.M.G., C.B.

(Late Director of Military Operations.)

The Duke of Wellington described the quality of courage particularly needed by a military leader in war as "oneo'clock-in-the-morning courage." I take it that by this he meant that the greatest test of leadership is the power to make cool, quick, and reasoned decisions at a time when vitality is at its lowest, and mental and physical strain greatest. The Duke might have said with equal justice that the particular kind of memory most needed in war is the one-o'clock-in-the-morning memory. It is a comparatively easy matter to remember when life is running smoothly, when one is well-fed, rested and undisturbed, but to remember even essentials when things are going wrong, when one is hungry, tired, and surrounded by noise and clamour, is quite another matter. This has always been recognised in the training of armies for war, and military authority has always insisted that it is not enough for a soldier to know how to perform any particular exercise or duty, but that he must know it so well as to be able to carry it out automatically when his mind, owing to strain and disturbance, has ceased to function normally. This is why drill plays such a large part in the training of the soldier for war.

Now the Pelman system provides mind-drill based on scientific principles, and taught by experienced instructors. It claims to produce not only a good memory, but concentration, self-confidence, self-control, initiative, and observation, and the thousands of letters received from soldiers who have taken the course, both before and during the war, show that it makes no empty claim.

Now there are few qualities which are more essential for the soldier than these, and in fact all the official drill-books in use before the war preached their importance, and indicated, though somewhat vaguely and uncertainly, the methods of producing them. In the renaissance of military training that followed the South African war, the Army began to recognise that his eyes are amongst a soldier's most important weapons, either of offence or defence, and training in observation became a regular part of the soldier's instruction. Good as this was, if somewhat amateurish in the methods, it fell far short of the graduated and scientific system which is to be found in Pelmanism. This unquestionably does train the eye and mind together to recall automatically all that comes within the range of vision, and in these days it is quite unnecessary to insist on the importance of this faculty to the soldier of any rank. But the greatest value of the Pelman system from a military point of view appears to me to lie especially in its power to produce a one-o'clock-in-themorning memory. I have known of the Pelman system for some seven years. I have served both before and during the war with many who have followed it, and it is this particular characteristic of its training which has struck me most. To any officer responsible for the lives and welfare of men, amemory which works instantly and automatically whenroused suddenly from a short and insufficient nap, or when the brain is numbed by fatigue and want of sleep, is a pricelesspossession, and there are few gifts which lead more certainly toadvancement in a military career. Of the thousand and one things that an officer in a responsible position must remember at such times, some one, and perhaps a vital one, may, and probably will, beforgotten, unless both mind and memory havebeen trained to cope with emergencies. Emergencies are not of everyday occurrence, even in war, and it is difficult in the long strain of such a war as this to keep the mind fit to meetemergencies when they come. The Briton, as a general rule, requires little persuasion to keep his body fit, and none at all to convince him of the necessity of having a fit body when he goes to war. Physical exercises and physical training of all kinds play a recognised part in the education of the recruit, in keeping the trained soldier up to the mark, and in restoring the convalescent. But as a nation, if we appreciate in a general way that it is of at least equal importance to keep our minds fit, we are far less certain of how to set about it than. we are when it is a case of keeping our bodies hard. I can think of no better method than Pelmanism, either for keeping the mind fit in times of leisure or slackness, or for restoring mental vigour to a soldier whose mind has become flabby from overstrain or physical weakness, and I can recommend. no better investment than a Pelman Course to the soldier on convalescent leave.

The Pehnan system was designed not for war but for peace, and its exercises were originally mainly adapted to the purposes of business and commercial training, but even in that form, which is the form in which I knew it first, it was followed with great benefit by many soldiers. But since the War the number of officers and men who have become Pelmanists has increased so fast that special courses of Army exercises have now been arranged, and are still becoming developed. The Pelman system is not cram or trick, but a scientific method of training which has proved its value to the soldier in war, and it would, I am certain, be of the greatest benefit if it were adapted to Army training generally.

"Mind and Memory" (in which the Pelman Course is fully described, with a synopsis of the lessons) will be sent, gratis and post free, together with a full reprint of "Truth's" famous Report on the Pelman System, and a form entitling readers of The Chemist and Druggist to the complete Course for one-third less than the usual fees, on application to The Pelman Institute, 313 Pelman House, Bloomsbury Street, Londor, W.C.1. Overseas Addresses: 46-48 Market Street, Melbourne; 15 Toronto Street, Toronto; Club Arcade, Durban.

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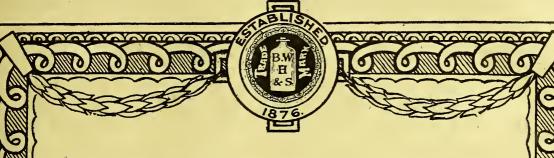
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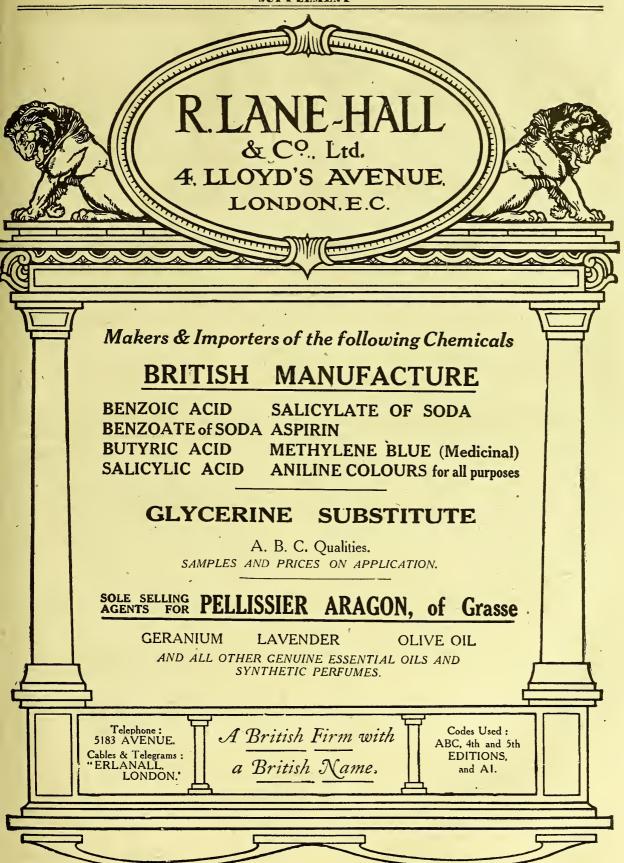
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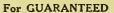
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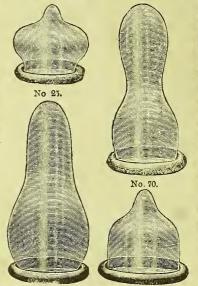


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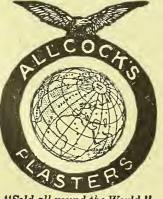
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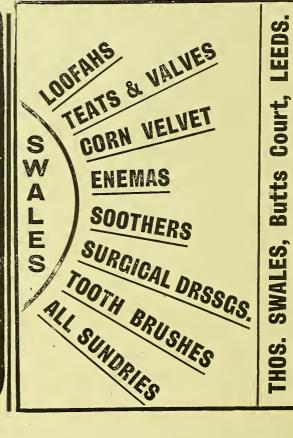
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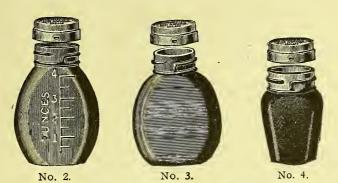


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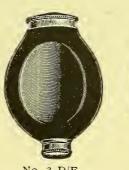
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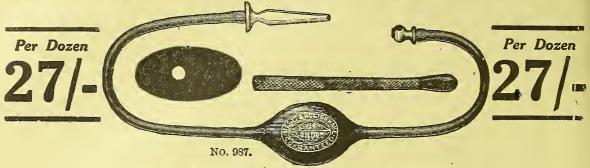
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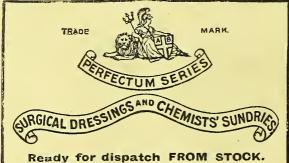
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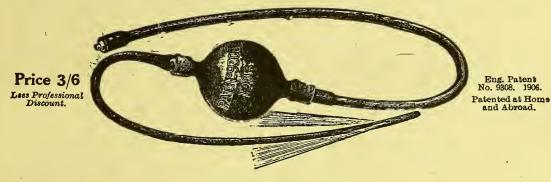
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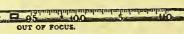
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A Preventive and Remedy

LICE, FLEAS, BUGS, MOSQUITOES, HARVEST BUGS, MIDGES, SAND-FLIES, JIGGERS, TOMBU-FLIES, GAD-FLIES, &c.

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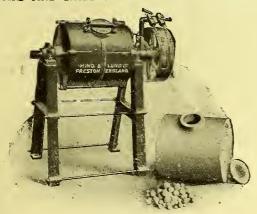
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IRON CYLINDERS, PORCELAIN OR QUARTZ-LINED.
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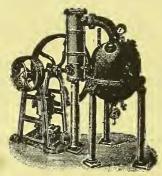


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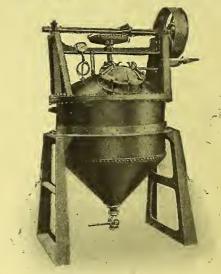
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AUGUST 31, 1918.

LONDON & DUBLIN.

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The gathering together of large numbers of human beings under conditions which render much attention to personal cleanliness absolutely impossible, must inevitably give rise to body parasites.

Ordinary insect powders are useless in attempting to deal with these, but May, Roberts' "Trench Powder" is not only a preventive of the pest, but will also rid the body of their presence.

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THIS SUPPLEMENT IS INSERTED IN EVERY COPY OF "THE CHEMIST AND DRUGGIST."



OFFICES: 42 CANNON STREET, LONDON, E.C.4

AUGUST 31, 1918.

Advertisements for this Supplement must be received not later than First Post on Thursday Morning.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, N.W.—Good-class Family Retail and Dispensing Business; returns £2,219, showing steady increase; net profit over £600; handsomely fitted single-fronted shop, with good residence; vendor is retiring

2.—LONDON, W.C.—Cash Retail Business, with N.H.I. Dispensing; returns, present rate, £1,056; net profit £300; rent 15s. weekly inclusive; held on lease; price about £450.

-DULWICH (Near).—Ready-money Business, situate in close imity to busy railway station; returns £450, under manageproximity to busy railway station; returns £450, ur ment; scope for extension; price £300 or near offer.

4.-LONDON, N.W. (Residential Suburb).-Well-established Busi-4.—DONDOLA N.W. (nestdinate today) ness, held by vendor upwards of 25 years; returns, present rate, over £30 per week at fair prices; well-appointed shop, fitted in malogany; there is a comfortable residence; held on lease; no near opposition; price £850.

5.—LONDON, N.—Cash Retail Business and own Proprietaries; position is exceptionally good, and the returns can be much increased; present rate about £1.200; owing to a breakdown in health an immediate sale must be effected; terms, valuation of stock and fixtures.

6.—ENFIELD.—For immediate disposal for removal, a small up-to-date Stock, together with the fixtures and fittings; the whole may be acquired by valuation, less a discount to be agreed equitably

7.—WILLESDEN.—Ready-money Business; established many years; returns, present rate, £30; weekly rent £50; no immediate opposition; price £350.

8.—WESTERN COUNTY (Death Vacancy).—Dispensing aud Family Retail Business; established upwards of 50 years; returns £654 at fair prices; good residence; rent £45; no opposition; terms, stock and fixtures by valuation; estimated at £320.

Business; MIDLANDS.—Well-established

9.—WEST MIDLANDS.—Well-established Business; returns between £1,600 and £1,700; good corner position in one of the main streets; large roomy house with private entrance; nice garden and greenhouse; price about £1,000.

10.—OXON (Death Vacancy).—Good-class Business; entirely unopposed; established upwards of 100 years; returns last year £1,453; average net profit £300; good residence, with garden and outbuildings; rent £42; held on long lease; price about £1,000. £1,000.

11.—BUCKS.—Dispensing and Retail Business; all good elass; returns, present rate, between £1,700 and £1.800 at good prices; stock and fixtures estimated at £900; vendor's own property; lease will be granted, or property may be purchased; price £1,200; good personal introduction would be given; vendor retiring.

12.—SOLENT (Near).—Established Business; Retail, Dispensing, and Prescribing; returns between £500 and £600 at good prices; very few potents sold; rent moderate; price about £300.

13.—A profitable old-established country Business in centre of market town, Gloucestershire, giving net profit £270; double-fronted shop and good residence; valuation terms entertained.

14.—KENT.—Ready-money Business, with N.H.I. Dispensing; returns, including branch, over £12.000 at good prices; terms, one year's net profit for goodwill; stock and fixtures by

STOCKTAKING. **.UATIONS**

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

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BUSINESSES FOR DISPOSAL.

3s. 8d. for 50 words or less; 6d. for every 10 words or less beyond, prepald.

PASTERN COUNTIES.—Middle-class Cash Trade, without side lines; returns, 1918, average £159 monthly; net profit large; commanding premises, with private and goods entrance; vendor retiring, or would take managing partner on generous terms to right man. Full particulars to applicants furnishing reference, "Radix" (266/21), Office of this Paper.

ONDON, S.E.—Well-established Light Retail and Dispensing Business; excellent position; lease; rent £80; returns over £1.800; shop well fitted and stocked; commodious house. Apply "X. Y. Z." (266/12), Office of this Paper.

MANCHESTER DISTRICT.—Good-class Retail and Dispensing Business, with N.H.I. contract, for disposal; cash returns £700, increasing; shop handsomely fitted; price, valuation of stock and fixtures; fullest particulars to genuine applicant; part of purchase money could remain to suit purchaser. Address 266/16, Office of this Paper.

OUTHPORT.—Drug Store, taking about £16 weekly; 2 Pharmacist could soon double; nct profit about 30 per cent.; small compact shop and house; 1ent £25; fixtures and steck worth about £300; price £300 for prompt eash; owner to join Army; no correspondence with inquirers within 40 miles. T. Stevenson, 25 Upper Aughton Road, Southport.

YORKSHIRE.—Old-established high-class Retail and Dispensing business in country town for immediate disposal, owing to ill-health of proprietor. Particulars on application to 263/36; Office of this Paper.

CHEMISTS AND DRUGGISTS.—For disposal, very old-established Business, situated in good position in one of the best-class neighbourhoods in London; turnover for the last calt weeks averages over £60 per week; well-fitted shop; good house over. Further particulars, in strictest confidence, upon application to W. H. Cart, 10 Fastchean London E.C. 3. tion to W. H. Cork, 19 Eastcheap, London, E.C. 3.

SOUND Eusiness for disposal; Drug and General Store in Birmingham; suit unqualified, or affords good scope for quelified man; satisfactory reason for selling; goodwill, etc., moderate for quick sale; genuine bergain. Apply 263/18, Cffice of this

LEGAL.

IN THE MATTER OF THE TRADING WITH THE ENEMY AMENDMENT ACT, 1916,

AND

IN THE MATTER OF WIDENMANN BROICHER & CO., LTD., OF LONDON HOUSE, CRUTCHED FRIARS, LONDON, E.C. 3.

DY an Order of the Board of Trade, dated the 9th August, 1918, pursuant to Section 1 (1) of the above-mentioned Act, requiring the business of the aforesaid Company carried on in the United Kingdom to be wound up, I the undersigned PERCY DEWE LEAKE, a member of the firm of P. D. Leake & Co., of 25 Abchurch Lane, King William Street, London, E.C. 4, was appointed as Controller to control and supervise the carrying out of the said Order and to conduct the winding-up of the said business.

business.

NOTICE is accordingly hereby given that the Crediters or other persons having any claims against the said Widenmann Broicher & Co., Limited, are hereby required, on or before the 51st day of October, 1918, to send their names and addresses and the particulars of their claims or demands to me, the undersigned, at my address as above, and, if so required by notice in writing from me are, by their Solicitors, or personally, to come in and prove their said claims and demands, at such time and place as shall be specified in such notice, and in default of complying with the requirements of this notice they will be excluded from the benefit of any distribution made prior to such claims being proved to my satisfaction. Dated this 26th day of August, 1918.
P. D. LEAKE,
Coutroller.

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CHEMIST willing to invest money or buy partnership in good sound business; £1,000 to £2.000 available. Full particulars, in confidence, to Edwards, 45 Old Steine, Brighton.

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1.—SOUTH COAST.—First-class Retail and Dispensing Business; in same hands many years; retiring; returns about £900; commanding position; plenty of scope in energetic hands; attractive Pharmacy; well stocked; price simply valuation; no goodwill. 2.—OXON (Death Vacancy).—Old-established good-class country Business in centre of large agricultural district; quite unopposed; returns £1,350; net profit £567; good house and garden; well stocked shop; price about £900.

3.—NORFOLK.—Unopposed mixed village, Retail; returns about £1,150; run as a Drug Store; large house; rent only £20; fully stocked; price £300; illness sole cause of sale; suit unqualified or qualified.

4.—LANGS.—Sound Cash Retail, within three miles of Bury.

or qualified.

4.—LANCS.—Sound Cash Retail, within three miles of Bury; present returns about £1,000; no panel; wine licence; very low rent; same hands many years; population 7,000; good chance for smart man; price £400.

5.—LONDON SUBURB, N.E.—Sound progressive cash Drug Stores in fine main road position; returns nearly £40 a week; no panel; excellent profits; convenient house and premises; well stocked; owner called up; price for quick sale £800; qualified man would soon increase takings to £2,500.

6.—LONDON, S.W.—Good-class Retail and Dispensing Business, in fine position, close to busy station; returns £1.000; no panel; clear net profit over £300; books properly kept; scope for increase, owner retiring; price £450; part could remain; strongly recommended.

recommended.
7.—LONDON, W.C.—Profitable Cash Refail, increasing: returns, under Manager, £1,050; net profit £300; low rent; good position and well stocked; price £450.
8.—LONDON SUBURB, S.E.—Well-ostablished Cash Retail; very profitable, and scope for increase; returns £540 under Manager; net profit £250; price £300, about value of stock and fixtures.

STOCKTAKINGS.

We are now booking dates for October, and appointments should be made early to avoid dates clashing. Terms sent on application, 45 years' practical experience.

PARTNERSHIPS.

A DVERTISER is able to offer to a progressive Chemist interest in an old-established business on exceptional terms; small capital required. Write Chemist, D. C. T., 155 Cheapside, London.

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A GENTS wanted in principal towns for Lysol, Packet Dyes, Soft Soap, Soap Powder and Cleaning Preparation, etc.: liberal commission. Box 76, Osborne-Peacock Co., Ltd., 82 Gordon Street, Glasgow.

BILIMORIA & CO., 121 Dhobitalao, Bombay, 2 (India), with established offices and with exceedingly good connections all over India, are open to accept further Sole Agencies; manufacturers of Patent and Proprietary articles. Chemicals, Drugs, and Galenicals cannot obtain better representation in India than that now offered; correspondence invited. Reference, National Bank of India, Ltd.

SUGAR SUBSTITUTE.—Agents wanted; London and suburbs, Southern Counties, Wales, Western Counties, Channel Islands. Sweetleaf. 104 High Holborn, W.C. 1.

TRAVELLER of good address, calling upon Chemists (Midlands and the North), desires additional Agencies in useful sundries. Replies to "Enterprise" (245/10), Office of this Paper.

BUSINESSES WANTED.

A GOOD Business wanted, about £3,000 returns, in provincial town or South Coast, or equivalent share in larger concern; a smaller business considered if profitable and expenses low, and situate in pleasant district; eash ready; all replies treated in strict confidence. Apply 250/13, Office of this Paper.

A DVERTISER wants a good-class Business in West Riding, with turnover from £20 to £40 per week, or a neglected one with good prospects entertained; cash ready, and references given. "Business" (267/25), Office of this Paper.

MALL Drug Stores; suit unqualified; London or near, with house accommodation; neglected one would do if an opportunity of working it up State particulars and price for cash, or part cash and balance by instalments; good references, "Drugs" (264/1), Office of this Paper.

MALL Business wanted in London or South of England; one with small stock preferred. Apply 268/10, Office of this Paper.

WANTED, a good business in the West Riding of Yorks. Apply "Progress" (263/28), Office of this Paper.

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MIXER; very strong; treble bladed, with tilting arrangement; size of mixing pan, 4 ft. 10 in. long, 3 ft. 4 in. wide by 3 ft. 9 in. deep. Apply 266/31, Office of this Paper.

MIXER by "Hodgkinson"; size of Mixer inside, 9" × 9" × 12" for hand. Apply 266/511, Office of this Paper.

MIXER by "Werner & Pfleiderer"; size of mixing bowl, 32½" × 32" × 25" deep, weight tilting; perfect order. Apply 266/310, Office of this Paper.

DHENAZON, 3 oz., 10s.; Phénacetin, 8 oz., 18s.; 8 oz. Podoph.
I Resin, 16s.; 8 oz. Quinine Sulph., 32s.; 4 oz. Quinine
Hydroch., 17s.; 3 lb. Sodii Salicyl., 22s. 6d.; 2 oz. Phenolphthalein, 8s.; 6 oz. Metol, 23s.; 8 oz. 0l. Bergamot. Super., 14s.;
1 oz. 0l. Neroli Super., 19s.; 3 oz. Brilliant Green, 13s.; 3 oz.
Theobrom. et Sod. Salicyl., 8s.; 4 oz. Caffein. Cit., 10s.; 1 oz.
Caffein. Pur., 4s.; 2 oz. Codeine Phosph., 45s.; 1 oz. Medinol,
9s.; 5 oz. Amidopyrin, 19s.; 3 jss. Atrop. Sulph., 44s.; 1 lb. 0l.
Santal. Flav. Ang., 43s.; 2 lb. Potas. Permang., small crystals,
27s.; post paid. Forryan, 40 Duncan Road, Leicester.

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PREEHOLD Factory Site (within 7 miles of London Bridge); unique position; area 50 acres, with over 800 ft. river frontage; easily navigable below bridges (no dues); approached by hard road, and with railway facilities available; sewer and surface drainage, gas and electricity; in neighbourhood where labour is easily obtainable; ample housing accommodation in the district: price £850 per acre. Green, Bank Buildings, Woodgrange Road E 7. district: price £85 grange Road, E. 7.

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RETAIL.

PARNSLEY.—Assistant, lady or gentleman (rejected, Grade 3, or discharged), qualification not essential, for brisk Retail and Dispensing (chiefly N.H.I.); middle-class business; outdoors; hours 9-8, Thursday I, no Sunday duty; previous Retail experience essential; liberal salary to suitable person. Kindly state full particulars as to age, experience, etc., Nash, 2 Queen Street, Barnsley.

BEACONSFIELD.—An experienced lady Assistant required as . Second in a good class Dispensing business. State particulars of previous experience and salary required (outdoors), Mr. Brooke, Chemist, Beaconsfield.

BIRMINGHAM.—Locum required for one week from September 9th; must have good experience and references. State terms, Rushton, Chemist, Hall Green Parade.

BRIGHTON.—Wanted, male, ineligible, or female Dispenser; knowledge of Counter work an advantage. Apply, stating salary required (another lady Assistant kept), Mr. Evans, Chemist, York Place.

BRISTOL.—Spracketts, Shipping and Retail Chemists, Tramways Centre, have a vacancy for a smart Assistant; discharged preferred. Apply, giving full particulars as to salary, etc., and enclose photo.

DUXTON.—Assistant (lady or gentleman) wanted for good-class business; outdoors; short hours. Please state age, previous experience, and salary required to W. T. Young, Pharmacist, Spring Gardens, Buxton, Derbys.

CARDIFF.—Duck & Son have a vacancy for Counter Assistant; lady or gentleman. Apply, giving full particulars, to St. John's Square.

CHESTER.—Lady or ineligible gentleman Assistant for Dis-pensary and Retail business. Please state age, experience, and salary required (outdoors), J. P. Craine, Northgate Pharmacy,

DARLINGTON.—Lady Assistant required. Apply, stating age, height, experience, and solary required, to Waters, Chemists, Darlington,

DEVON.—Wanted, qualified Manager to work Light Retail; Dispensing, Veterinary, and Photographic business in charming country town; easy hours; salary offered £3 10s. outdoors, or equivalent indoors. Apply 258/39, Office of this Paper.

PAST PUTNEY, S.W.—Qualified Assistant; lady or gentleman (incligible for military service); outdoors. Apply John Keall, 68 West Hill, East Putney, S.W. 18.

GREAT MISSENDEN.—At once, an Assistant about 30; not necessarily qualified; well up in Dispensing and good-class Retail; ineligible; able to take sole charge. References, usual particulars, salary required, and photo, which would be returned, George J. Coombes, Great Missenden.

HAMPSTEAD.—Assistant (lady or gentleman) in a Limily Retail and Dispensing business; two kept; one accustomed to Counter work and Stocktaking not objected to. Full particulars in first letter re experience, references, and salary required (outdoors), or a personal interview, Alban Atkin, M.P.S., 243 West End Lane, N.W.

HULL.—Wanted, Assistant (outdoors); used to good class Retail and Dispensing business. Send full particulars, age, reference, and salary required, S. T. Kirton, Chemist, 53 Savile Street,

KINGSTON-ON-THAMES.—Assistant wanted, lady or gentleman (outdoors), for good-class business; easy hours; good salary; no Sunday or Bank Holiday duty. State age, height, when disengaged, and salary expected, Plomley, Chemist, 51 Fife Road.

AKE DISTRICT.—Assistant wanted; qualified or unqualified; good middle-class and agricultural business, a little Wholesale; short hours, no Surday or Bank Holiday duty. State usual particulars and salary required. "X. L." (162/19), Office of this Paper.

LIVERPOOL.—Locum wanted for second half of September well up in Dispensing; all particulars as soon as possible Apply V. Strawson, Pharmacist, 23 Moss Street, Liverpool.

LIVERPOOL.—Wanted, to commence duties any time before October 1st, qualified Manager; salary 4½ guineas weekly. Full particulars to "G. S. R." (266/15), Office of this Paper.

LONDON, N. 6.—Wanted, for good-class Family Dispensing business, a reliable Assistant; outdoors; duties chiefly Dispensing; hours 9 till 8, Thursdays 1, Saturdays 9; must be ineligible for Army, or lady; personal application preferred. Apply, with usual particulars, to Bailey, 64 High Street, Highgate, N. 6.

LONDON, N.W.—Competent Junior Assistant for good-class Dispensing and Retail. Apply, with particulars, to William Brown, 1 King's College Road, South Hampstead, N.W. 5.

LONDON, S.W.—Dispenser, lady or gentleman, for high-class business. Write 261/28, Office of this Paper.

L ONDON, S.W.—Assistant, with good Dispensing experience, required early. Please state experience, when disengaged, and salary required, Amon, Chemist. 436 Streatham Common, S.W. 16.

ONDON, S.E.—Qualified Chemist, lady or gentleman, as Manager; Dispensing department; capable and accurate. Apply, stating references, salary, etc., Chemist, 77 High Street, Groydon.

LONDON, S.E.—Assistant wanted (outdoors) for good-class Dispensing business; lady or gentleman; permanency; good salary. Also one for Stook and assist at Counter. Apply, stating experience, age, salary, and when disengaged, to J. W. Rumsey & Son, 535 Lordship Lane, East Dulwich, S.E. 22.

I ONDON, S.W.—Experienced Assistant required; accurate Dispenser; good general knowledge of middle-class business; N.H.I.; outdoors. Apply Lloyd, St. John's Hill, Clapham Junction.

LONDON, W.—Assistant (lady or gentleman) required for Counter and Dispensing; permanency, with good salary. State full particulars, experience, salary, etc., to 265/21, Office of this Paper.

MANCHESTER.—An experienced lady Assistant required for the Dispensing department of a high-class business. Reply, with full particulars of previous appointments, age, and salary expected, to 163/21, Office of this Paper.

MIDLANDS.—Unqualified Assistant for progressive business; would suit discharged man very well; permanency. "21/S." (266/191), Office of this Paper.

MIDLANDS.—Unqualified mon, Retail experience, required, to assist in the Stocktaking department of firm whose head offices are situate at Birmingham; permanency to suitable man. "Stock" (266/192), Office of this Paper.

NORWICH.—Discharged soldier or businesslike woman to manage Drug Stores; mostly packed goods, high class; very easy and comfortable post. Send full particulars to 15 St. Stephens Road, Norwich.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy free removal; permanency with White Co., Ltd., Chemists, Portsmouth.

SOUTH SHIELDS.—Wanted, qualified Assistant (ineligible) for Manufacturing and Dispensing, with good knowledge of Counter trade. Full particulars as to salary, with references, to Mason & Co., Ltd., Store Chemists, 80 King Street, South Shields.

OUTHAMPTON.—Junior Assistant required for a Light Retail business in a pleasant suburb; reasonable hours; time for study; outdoors. Apply, stating experience and salary required, to P. G. Eley, Shirley Road, Southampton.

TOCKPORT DISTRICT.—Qualified Manager required for Cash Retail and Dispensing business, with N.H.I. work. Address, stating full particulars as to references, salary, when disengaged, etc., and enclosing photo (to be returned), to T. Woodruff, Plarmaceutical Chemist, 83 High Street, Cheadle, Manchester.

Subsequence of the control of th

WEST RIDING (Good Realthy District).—Capable qualified Manager required for a sound Family Retail business, which is doing well; good salary, with a liberal interest in the profits offered. Apply 266/19, Office of this Paper.

WEYBRIDGE.—Lady Dispenser required (outdoors); good-class business. Full particulars, experience, salary, etc., to Amos & Ashworth, Church Street.

WORTHING.—Lady Assistant wanted, with Dispensing experience; outdoors: good-class business. Send particulars, with reference, to W. Aston, Pharmaceutical Chemist, Worthing.

AN ineligible or Grade 3 Manager wanted at an early date.

Apply in the first place by letter only, giving full particulars of experience, references, and salary required, to Hopkins, 22 The Chase, Clapham Common, S.W.

AN ineligible and unqualified Assistant wanted at an early date; must be experienced in Photography and Dispensing, and a good Window-dresser. Call, or write full particulars, to 106 High Street, Wandsworth, or 'phone Putney 1160.

 ${f A}$ SSISTANT for brisk Retail and Dispensing business; good salary and prospects to a suitable man. Packer, Scaford, Sussex.

A SSISTANT wanted for a few weeks, chiefly for Dispensing. Apply, giving full particulars, with salary required, to E. Bing & Son. Pharmaceutical Chemists, Canterbury.

A SSISTANT, qualified (lady or gentleman), for the Dispensing Counter. Apply "A. J. B. C.," Cooper, Son & Co., Ltd., 80 Gloucester Road, South Keusington, S.W. 7.

A^T once, an Assistant, about 50, for busy good-class village Retail, with good Dispensing experience; abstainer preferred, and able to take sole charge; ineligible. Please state salary required, when at liberty, and usual particulars, "Statim" (267/5), Office of this Paper.

CAPABLE unqualified Assistant required (immediately), lady pensing business. State salary required and references, Knight & Crofts, Hinckley.

DENTISTRY.—Dental Mechanic and Operator to take charge of branch; salary with commission, and later share in practice. "Jenniugs" (260/19), Office of this Paper.

DISPENSER (lady), Hall certificated, wanted (temporary); salary £100 a year, and £12 a year war bonus extra. Apply, stating age aud particulars, to Medical Superintendent, Herts County Asylum, St. Albans.

DISPENSER, qualified (either sex), required, with good experience of first class business; easy hours; permanency.

Post fullest details of previous experience and remuneration received to Mongrey Lynion Army and New Stores Ltd. Union quired to Manage Street, Aldershot. Manager, Junior Army and Navy Stores, Ltd., Union

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m D}^{
m ISPENSER}$ and Counterman wanted; must be ineligible for military service; salary £150 per annum. Apply 266/3, D military servi Office of this Paper.

DISPENSER wanted for Accrington Medical Dispensary; qualified under Insurance Act. State terms to J. T. Smethurst, 11 Westwood Street, Accrington.

EXPERIENCED, qualified Assistant required; outdoors; short hours; good salary. Apply to Mr. Marshall, c/o John Bell & Croyden, 50 Wigmore Street, W. 1.

FOR THE DURATION OF THE WAR.—Wanted a qualified Manager (ineligible for military service) for good-class one-man business in a country town situated in a delightful neighbourhood; short hours; garden; nice house to live in offered. Apply, stating salary required, to 263/24, Office of this Paper.

G OOD reliable Assistant wanted (at once); ineligible.

GOOD opening for a young qualified man; either rejected, discharged, or Grade 3; permanent and lucrative post. "H. L." (266/193), Office of this Paper.

GOOD OPPORTUNITY.—I require assistance (at once); geutle-transpreferred; lady with Retail experience cutertained; every consideration given to suitable person; two Assistants kept; little salary and good prospects. J. Wearing, Pharmacist, Woking. 'Phone No. 164.

GUY'S HOSPITAL.—A sixth Dispenser required; Minor qualifi-cations essential; salary £150 per annum. Apply to the Acting Pharmacist.

ADY Dispenser-Bookkeeper wanted (immediately). Write, giving references and stating salary required, to Drs. de Nyssen and Aylen, Halesworth, Suffolk.

ADY, qualified or unqualified, for Counter and Light Dispensing; a competent Window-dresser would be p J. E. Henshaw, 23 Wyle Cop, Shrewsbury. preferred; short

ADY Dispenser (outdoors) wanted for medical practice in small country town on main line near London. Apply, stating age, experience, salary required and give references, 254/31,

ADY Assistant or Improver wanted. State salary required aud full particulars to Chemist. 61 Peckham Park Road, Peck-

ADY Dispenser required (Hall qualification) for good-class business. State salary and usual particulars to H. Hocken, 33 Station Road, Redhill, Surrey.

ADY Assistant required for high-class Pharmacy. Please give full particulars to E. J. Savage, 13 Queen's Road, Bourne-

ADY Assistant; good Counter and Stock experience; un fied; South Coast. Apply 265/24, Office of this Paper

ADY Assistant wanted for Dispensing, Stock, and Counter; hours 9-7, Saturdays 8, Thursdays 1 o'clock, Apply, with full particulars as to experience, etc., Walter Marchant, High Town, Hereford.

ADY Junior Assistant required for first-class Dispensing and Retail business; outdoors; other ladies employed; reasonable hours. Write, giving full particulars, to G. Peck & Son, Pharmaceutical Chemists, Cambridge.

ADY Assistant; Apothecarics' Hall; whole or part time. Apply personally, or by letter, to J. Elsworth Alcock, Pharmaceutical Chemist, 69 Churchfield Road, Acton. W. 3.

DY Assistant, young and active to help in busy Retail business; some shop experience desirable; Central London; ors. Hairsine, 52 Wardour Street, W. 1.

OCUM, lady Dispenser, qualified, wanted (at once); Isle-worth Infirmary, Middlesex. Apply Dispenser.

OCUM (qualified) wauted for four weeks at Essex County Hospital, Colchester. Apply, with full particulars, to Pharpital, Colchester. macist at the Hospital.

L OCUM required (early in September) for one fortnight; no Sunday duty; very little N.H.I. State terms and vacant date to Orange, Chemist, Aldershot.

OCUM required for two or three weeks; September-October; working-class business. Give references and state salary required to J. F. Wilkinson, 129 Ferham Road, Rotherham.

LOCUM; reliable; qualified; immediately: four weeks. State salary (outdoors), references, Hay, Chemist, Hylton Road, Suuderland.

LOCUM for Counter, either sex, wanted for one or two weeks about the 3rd. Fife, Chemist, East Twickenham.

MANAGER; qualified for London, S.W.; good-class Dispensing Store Business; applicants must be smart business men used to quick trade, good appearance and address, ineligible; salary offered. 45 per week and commission. State full particulars when disengaged, experience, all of which will be treated in confidence, 264/27, Office of this Paper.

MANAGER required for old-established City Retail business; only men qualified to take sole charge need apply. Apply 153/3, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists. Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED or unqualified lady Chemist wanted to manage branch business; salary and commission. Apply "A. A." (256/17), Office of this Paper.

QUALIFIED Assistant wanted; active elderly man not objected to; short hours (one o'clock Saturdays), no Sunday duty. Apply Staff Superintendent, C.S.S.A., Ltd., 126 Queen Victoria Street, E.C. 4.

QUALIFIED Chemist; efficiency paid for; Salesman and disciplinarian; salary and commission guaranteed, £275. Apply by letter in first instance, making personal appointment, to W Beanison, Pharmaceutical Chemist, 2 Shawfield Street, Chelsea.

QUALIFIED Manager or Manageress required; middle-class business; S.W. district; N.H.I. Apply, stating salary and references, "S." (255/33), Office of this Paper.

QUALIFIED lady Assistant required; capable of taking charge of medium-class business during occasional absence of proprietor. Apply, giving usual particulars, to E. J. Latham, Pharmacist, Shirebrook, Derbyshire.

SALESMAN and Dispenser wanted (unqualified) for Chelmsford and Sutton; must be ineligible or over military age. Apply personally any morning except Saturday, or write, stating salary required, when disengaged, and enclosing if possible recent photograph, Parke's Drug Stores, Ltd., 65 Harmood Street, N.W.

SURGICAL INSTRUMENT BUSINESS.—Assistant for Shop Counter; state age, other duties accustomed to, and wages expected. Reply "Surgical," Lee & Nightingale, Liverpool.

UNQUALIFIED Managing Assistant (ineligible) for good-class Retail and Dispensing business; outdoors; hours 9 to 7.15, Thursday 1, Saturday 8.30. State full particulars, with salary, to Ekins & Fisher, St. Albans.

UNQUALIFIED Assistant for city business; must be smart, and Counter and accurate Dispenser. State usual particulars, Lawrence's, Cash Chemists, 44 Great Charlotte Street,

UNQUALIFIED Assistant (lady of gentleman); outdoors; easy hours and no Sunday duty. Usual particulars to L. Jones, Chemist, Kidwelly.

UNQUALIFIED Assistant, rejected, Grade 3 or discharged, for progressive Store business in healthy West Riding town; comfortable permanency, with good prospects. "W. R." (266/190), Office of this Paper.

WANTED by the Gilfach Goch Medical Scheme, lady Dispenser. Apply, giving particulars, to Secretary, Brynteg, Gilfach Goch, Glam.

WANTED (immediately), a competent lady Assistant; qualified preferred, but not essential; light hours; in a large country town; healthy district, with pretty surroundings. Apply 262/10. town;

WANTED, Indoor Assistant; one discharged from the R.A.M.C., or a lady; military centre; comfortable home; agreeable associations; Wiltshire; in first letter please state salary required and references. Apply to "M.M. 21" (263/7), Office of this Paper.

WANTED (immediately), qualified Manager; liberal salary and commission to suitable man; Manchester district. Apply 255/51, Office of this Paper.

WANTED, elderly or partly disabled qualified man for branch; certificate the main consideration; easy berth, outdoors. Give full particulars in first letter (permanency), "Spero," South

WANTED, Assistant; male or female; outdoors; unqualified; ineligible or of low category. Apply, stating age, experience, and salary expected (no Sunday duty), to Cooper, Pharmacist, Failsworth.

WANTED (immediately), an Assistant for Counter and Dispensing (discharged soldier preferred); good salary; short hours: Apply Battars, Chemists, Grimsby.

WANTED (at once), qualified lady Pharmacist; wages £4 per week; pleasant service; nice district; elderly man would suit. Lofthouse & Co., Ltd., Fleetwood.

WANTED, an Assistant of good business habits; accustomed to good-class Retail and Dispensing; permanency preferred. Apply, stating age, height, salary required (outdoors), with details of experience, to D. T. Evans, Chemist, Margate.

WANTED (immediately), lady Bookkeeper-Dispenser: must be quick and accurate. State all particulars as to experience, ability, etc., and salary required (outdoors), E. M. & M. T. Chater, Chemists, Watford, Herts.

WANTED, Locum for about fortnight in September; outdoors; single-handed. State references (recent), age, krims, and all particulars in first letter, Neale, Mortimer Street, Herne

WANTED, a lady Dispenser for two weeks from September 12th. Dr. Johnson, 46 Packington Street, Islington, N

WANTED, an experienced married man as Dispenser and Bookkeeper in a high-class general practice in the West Midlands; good salary; house, coal, and gas free. Apply, with testimonial, etc., to Messrs. Huish & Co., 12 Red Lion Square, London, W.C. 1.

WANTED, unqualified Assistant for good-class business; either sex; good references. State age, experience, and salary required, Weston Poole, Pharmaceutical Chemist, Newcastle, Staffs.

WANTED, Junior Assistant, unqualified, lady or gentleman, for Counter and Dispensing. E. B. Ward, St. Stephen's Road, Leicester.

WANTED, an Assistant for country trade. W. Carter, Chemist, Oswestry.

WANTED, Junior Assistant Chemist; male or female. Apply by letter only to Manager, Pears' Soap Works, Isleworth.

WOMAN Pharmacist required in September to manage small Retail business; for some years managed by a qualified woman; London district; salary 3½ guineas. For particulars apply 263/40, Office of this Paper.

YOUNG lady Dispenser required, with Counter experience preferred, for Crouch End district; must have the Apothecaries' Hall qualification; if convenient apply personally any morning except Saturday, Parke's Drug Stores, Ltd., 65 Harmood Street, N.W

WHOLESALE.

I ANCASHIRE.—Manufacturing Pharmaceutical Chemists are sopen to consider Foreman on Pan and Still work; also men with general Laboratory experience. State details and requirements in first instance, 267/900, Office of this Paper.

ANCHESTER.—Wholesale firm require Assistants in various departments; Wets, Drics, and Packing; to be of service, plicants must give particulars of former experience and wage equired. Apply 267/9, Office of this Paper.

A SSISTANT, with some experience in Tablet-making, for Man-chester house. Replies in confidence, stating experience and clary required, 163/22. Office of this Paper.

NVOICE Clerk; experienced: state age, qualifications, when disengaged, and salary required. Apply the Managing Director, the Standard Tablet Co., Ltd., Hove.

PHILIP HARRIS & CO., LTD., Edmund Street, Birmingham, has a vacency for one or two very capable men having and experience in Laboratory, Wet or Dry Room, Poison or hemical departments. Apply with particulars,

ABORATORY.—Assistants wanted for Chemical and Pharmaceutical work; must have had some Chemical and good Pharmaceutical experience: iucligible: unqualified; salary £100 per annum Apply Box No. 627, Smith's Advertising Agency, Ltd., 100-Fleet Street, E.C. 4.

LADY Chemist, qualified, with good organising ability and capacity, to centrol a staff of girl workers, to supervise the Pharmaceutical packed goods department of a firm of Mannfacturing Chemists on the South Coast; preference given to applicant who has had both good-class Retail as well as Wholesale experience; the post offers excellent prospects of advancement. Apply, stating age, experience, salary required, and other particulars, to 161/6, Office of this Paper.

ADY Fitter wanted for Abdominal Belts, Trusses, Elastic Stockings, etc. Address, stating previous experience, salary required etc., "R.," 26 Thavies Inn, Holborn Circus, London,

LADY; experienced Bookkeeper; able to control stoff and take charge of large Chemist's office in the Midlands: must be someone requiring a permanency; hours and wages good. Apply, with full particulars, to "Crosby" (263/25), Office of this Paper.

MAN wanted for making Saccharine Tablets; must thoroughly understand all the processes; £4 a week. Apply, with references, to Tranmer, 42 High Street, Smethwick.

MAN required for Wet Counter work in Wholesale house; not eligible for military service. Apply by letter, stating full particulars, to "S. H." (164/100), Office of this Paper.

PHILIP HARRIS & CO., LTD., Pharmaceutical Specialists,
Birminghom, have a vacancy for a well-educated, highly
trained, scientific Pharmacist, who must possess sound modern
business principles, together with salesmaking capabilities. The
position is intended to become an important one, consequently
the highest references will be required.

TABLET Maker or Granulator wanted; Liverpool; permanent post; good salary. Apply 137/18, Office of this Paper.

WANTED, experienced Tablet Machinist. Apply W. B. Cartwright, Ltd., Tablet Makers, Rawdon, near Leeds.

WANTED, an experienced Pill Maker and Coater: one who is incligible for the Army or discharged. Apply, stating experience and wages required, to 264/21, Office of this Paper.

WANTED, Invoice Clerk and Wet Counter Hand: males or females. State experience and wages required, Gale & Co., Ltd., 15 Bouverie Street, E.C. 4.

WAREHOUSe Desputch Clerk required (at once); one used to checking orders and superintending the desputch of goods; must be accurate; good wages to competent man. Apply stating full particulars and wages required, to 162/66, Office of this

WAREHOUSEMAN required in Manufacturing Chemists, with knowledge of Essential Oils, weighing and filling. Apply Stevenson & Howell, Ltd., 95a Southwark Street, S.E. 1.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

PLORENCE, 1TALY.—Experienced, qualified lady Pharmacist required for Dispensing; must be neat and orderly; preference given to one able and willing to help in Counter work if necessary; previous_continental experience not essential; travelling expenses paid. State salary expected and enclose photo, H. Roberts & Co., British and Foreign Chemists, Florence.

JAPAN.—Wanted immediately, an Assistant (qualified preferred) in a first-class Chemist's business at Kobe; easy hours; four years' contract; passage paid out and home; must be ineligible for the Army. Send for full particulars, with photo, to J. W. Franklin. 28 Alleyn Road, London, S.E. 21.

PANGOON.—E. M. de Souza & Co. require (immediately) qualified Assistant; incligible or discharged; under 30; salary Rs. 450 (rupee equivalent 1s. 6d.) per month; four years' agreement; good prospects; passage paid out and home. Apply E. M. de Souza & Co., 44 Holborn Viaduct, E.C. 1.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

AS Manager; qualified; age 36; Grade 3; capable, reliable, with good experience; present post five years. Please send full particulars as to salary, etc., to 265/14, Chicc of this Paper.

As Manager; Locum or permanent; outdoors; qualified; middle-aged; Western Counties preferred, not essential; disengaged early September. Send fullest details, first letter, 266/38, Office of this Paper.

DISCHARGED man seeks berth (immediately); Assistant; un-qualified. Write 14 Purbeck Road, Bournemouth.

DISPENSER (Hall qualification), good Bookkeeper, middle-age, manency with Doctor or Institution; good references and testimonials. Apply 262/25, Office of this Paper.

DISPENSER (lady) desires post; six years' experience; good references. Apply 264/5, Office of this Paper.

DISPENSER, unqualified, under military age, just completed three years' Apprenticeship in a London Hospital, desires change of Institution for more experience. 'Veritas' (265/31), Office of this Paper.

DISPENSER (Hall) seeks post; Doctor; out of London pre-ferred. Apply 266/5, Office of this Paper.

DOCTOR'S Dispenser-Bookkeeper, unqualified, 45, married, requires permanent situation; twenty years' experience in the Surgery. Dyett; 8 Elden Terrace, Swanage, Dorset.

RYPERIENCED Pharmacist requires responsible position as Manager; capable of sole control over middle-size or large business; first-class Counterman and a shrewd buyer; Window-dresser with modern ideas; quick and accurate Dispenser if necessary; of good appearance, birth, and education; young and active; excellent character; offers of over £300 per year only need reply. Apply 264/7, Office of of this Paper.

CRADE III., 28, unregistered, desires change; twelve years all-round experience (including all Laboratory work of Pharmaceutical preparations); good Photography and Agricultural knowledge; quiek and accurate Dispenser; splendid Salesman and Prescribor; energetic and businesslike; capable Extractor and first-class Vulcanite Worker; 3½ years' present sitution; splendid and undeniable references in hand. "Rhei" (263/37), Office of this Paper.

ADY, 21 (Hall), desires light post with Doctor; live in pre-ferred; very little experience; free middle of October; must London. Miss E. A. Stuart, "Fryern," Chandlersford, Hunts.

ADY, four years' Counter, eight months' Dispensing experience, mostly N.H.I. work, desires evening employment from 5.30 p.m., Saturdays half-day; easy reach of Holborn or Camterwell, S.E. Reply "Reliable" (262/13), Office of this Paper.

ADY (Minor) desires good-class Retail work in Sheffield or near Bournemouth; 7 years' Dispensary and one year's Retail experience. "Chemicus," 45a Cadogan Street, Sloane Square, London. ADY, four years' Counter, eight months' Dispensing experience,

LADY Dispenser (Hall) desires post with Doctor, Hespital, or Institute. Miss A. Margerand, 229 Fordwych Road, Crickle-wood, N.W. 2.

LADY; 26; experienced Counter Assistant, or in Warchouse; excellent references; West of London preferred. J. H., 126 Addison Gardens, Kensington.

ADY Dispensar (unqualified) desires post with Chemist or Doctor in S.W. district. Mrs. J. Wallis, 12 Lingfield Avenue, Kingston, Surrey.

ADY Dispenser requires post with Chemist or Hospital; passed 1 Materia Medica and Chemistry, Apothecaries' Hall; Cardiff or Newport district preferred; previous experience; Doctor's Dispensing. Apply Thomas, Llwynhaid, Bettws, near Newport, Mon.

ADY Dispenser, Hall qualification, requires post in N. or 1 N.W. London; whole or part time. Address "Hall," 4 Lower Terrace, Hampstead.

ADY Dispenser, Hall qualification, desires post with Doctor; experienced. Apply 267/23. Office of this Paper.

ADY Dispenser (Hall) desires post; East-End. London; dis 4 engaged now. Apply 266/27, Office of this Paper.

I OCUM; 18 years own business; 48; qualified; full Deutal enriculum, Photography, etc.; £6 per week; fare one way. Apply." Salisbury" (260/28), Office of this Paper.

OCUM: lady Dispenser disengaged October 1st to 16th: 10 years' experience; references. Apply 27 Claude Road, Cardiff.

OCUM; qualified; thoroughly experienced; disengaged; 4 London; £6. "Reliable," 84 Praed Street, W. 2.

CUM; Weston-super-Mare or Bristol preferred; disengaged September 14th; reasonable terms. Jones, 47 Haymarket, on, W. OCUM: London,

OCUM; qualified; 56; beginning of October; seaside or country preferred. Apply "London" (267/8), Office of this Paper.

OCUM; unregistered; competent all branches; 41 years; conditional exemption; Grade 3; N.H.I. qualification; highest references; disengaged shortly. Chemist, 34 Cawdor Road, Fallow-

OCUM; qualified; 18 years' experience; thoroughly capable; seaside or West-End preferred; free September 11th for two weeks. "H. G." (265/40), Office of this Paper.

MANAGER; branch; Minor; married; 47; London preferred, or district; Extractor, Dispensing and Retail; Colonial and Home experience; discharged Army. "Kia-Ora" (264/4), Office of this Paper.

MANAGERSHIP; eventual partnership or succession enter-tained; wide experience; knowledge French and Photo-graphy. Apply 262/21, Office of this Paper.

MANOHESTER; City preferred; unqualified; discharged; Counter and Dispensing; age 21. Please write, "Associate," 30 Bedford Street North, Liverpool.

PART-TIME work wanted by Hospital Dispenser; Hall certificate; 12 years' experience; free 5 p.m. and 1 p.m. Saturday. Dispenser, 54 Oakfield Road, Clapton, E. 5.

PART-TIME required in London by Student. (266/33), Office of this Paper.

PERMANENT Manager or Locum; abstainer; thoroughly competent Prescriber, Counterman, and Window-dresser; well up; London or near; unqualified. "E." (266 50), Office of this Paper.

PHARMACIST, Grade 3 (returned by military), requires situa-tion in healthy neighbourhood; would do Loeum; free middle September. R. W. H., 6 Milner Street, Gibson Square, N. 1. September.

QUALIFIED Locum; Branch; part-time. Chemist, 26 Telford Road, Westbourne Park, W.

QUALIFIED: after illness, advertiser wishes for an easy berth. Wheeler, "Craig Affie," near Iron Acton, Gloucestershire,

QUALIFIED Pharmacist desires position as Manager'in good-class business for winter months, in healthy locality; thoroughly experienced and reliable. Full particulars and terms, "Aspirin," 42 High Street, Oxford.

RELIABLE Dispenser and Surgery Aftendant, 30, disengaged July 8th, requires locum or permanency with Doctor or Institution; last situation, one year management of Drug Store, five years with Doctor. Write Mr. M. Birch, 16 Melrose Gardens, Hammersmith, W. 6.

UNQUALIFIED Junior Assistant, five years' experience, served overseas, Grade III., desires substitution for Grade I. man. Firm with such communicate Corporal Carter, W.G. 207,802. Discharge Centre, 4 Camp, Ripon.

UNQUALIFIED Manager or Assistant, married, 39, Grade 3, seeks permanency; highest references. State salary, etc., in first letter to "Saponis" (267/13), Office of this Paper.

UNQUALIFIED Manager or assist; rejected: married; good experience; London or near preferred. Apply 267/7, Office of this Paper.

UNQUALIFIED; 24; good-class Dispensing and Counter experience. State salary offered and hours to "Provincial (265/34), Office of this Paper.

YOUNG lady (nine months' College tuition) requires situation with Chemist as Improver (West of England). Jewell, 23 Basset Street, Camborne, Cornwall.

YOUNG Chemist's Assistant (ineligible) seeks position as Dispenser in good-class Pharmaey; healthy district preferred; outdoors: easy hours; short period or permanency. State terms, etc., to R. N., 26 Divinity Road, Oxford.

WHOLESALE.

A DVERTISER, at present with firm of Chemical Merchants, desires change; many years in Chemical trade; well up in factory routine, having held post as Chemical Works Manager at London factory; understauding the manufacture of many Chemicals; has also acted as Traveller. Apply 262/19, Office of this Paper.

A DVERTISER is open to represent first-class house: many years experience Drugs, allied trades; first-class references. Apply 265/28. Office of this Paper.

A DVERTISER (incligible) desires change; years experience in buying Drugs and Chemicals, and Hospital supplies for chimment to the Colonics; understands licences, etc. Apply 267/6. Office of this Paper.

CHEMIST, 33, wishes to negotiate with view to a permanency in a good firm; for over four years Manager of the Drug and Chemical side of a well-known firm, with full control of Buying, Sales, Warehouse Staff, etc.; liberal salary, with attractive future prospects essential; no objection to Provinces or foreign parts at termination of war. Write Box 266/6, Office of this Paper.

DISPENSER, locum, permanency, or representative work, wanted by a discharged man, aged 40; Apothecarics' Hall Dispenser; Hospital, private, and contract practice; 18 years' experience; position as Traveller with good Wholesale firm or Laboratory, offering progressive and permanent position mostly desired; references. J. Horsbrough, Bnrnholme, Hetton-le-Hole, co. Durbant.

MALT EXTRACT.—Position wanted; 20 years' experience in making all grades and combinations in manufacturing Malt Extract. Apply 266/4, Office of this Paper.

OFFICER, just invalided from Army, desires light post as Traveller or in Wholesale; London or South; thorough knowledge of trade; age 39; active and capable. Bradley, God-

PH.C. desires position as Laboratory Manager or Works
Chemist: 20 years in manufacturing Synthetic, Organio
Proprictaries, Galenicals, etc., and also in experimental work,
Research, and Bacteriology. "H. J.," 7 West Road, Tottenham,

REPRESENTATIVE (lady) desires re-engagement; London or provinces; experienced Drugs, Perfumery, etc.; highest references. Apply 265-27, Office of this Paper.

RESPONSIBLE permanent position wanted in Wholesale or Retail by Scotsman with 22 years' experience in Retail (Dispensing and Management), Wholesale, and Travelling; age 36; Grade 3; healthy, active; qualified; married; excellent references, State salary and prospects, 264/25, Office of this Paper.

SURGICAL APPLIANCES.—Capable Assistant and experienced Fitter of Deformity Appliances and Artificial Limbs desires gosition with a live firm. Apply "A. Z." (265/38), Office of this Paper.

WORKS CHEMIST or Manager; commercial and scientific knowledge; expert Analyst and Buyer; fine Chemicals, Drugs, Essences, Extracts, Packed Goods; highest credentials; exempt. Apply 265/26, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

HEMIST; experience abroad; speaking Spanish; situation; good elimate; exempt; 45; good all-round man. Apply 262/9, elimate; exem Office of this Paper.

MISCELLANEOUS.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old street, London, E.C.

HOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

2D. per lb. offered for old copies of Periodicals. Send earriforward to Wigglesworth, Limited, Westhoughton, Lancs.

240 7-ib. Tins Essential Oil of Lemon by S. and G. de Pasquale, Messina, Italy; 20 gross Earthenware Ointment Pots, 1½" × ½" inside, per gross 15s., 10 gross £7. 20 gross £12 10s.; 8 dozen Maximum and Minimum Thermometers, boxwood seale, complete with magnets, each 6s. 6d., per dozen £3 10s., eight dozen £25; 30 gross Tooth Powder, assorted tins, rose, carbolic, and Parma violet, per gross 40s., 10 gross £18. 30 gross £50. T. Bath & Co., 18 Savoy Street, Strand, London, W.C. Telephone, Gerrard 5797.

100,000 ½ gr. 330 Saccharine Tablets, guaranteed full @ 19s. 6d. 1,000; immediate delivery; eash with order, postage 1s. extra. Moore, Dept. A. 1 Rochampton Street, Victoria, S.W.

EXCHANGE COLUMN.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. \(\)
No advertisement inserted for less than \(6d. \)

FOR DISPOSAL.

BOOKS AND PERIODICALS.

BOOKS: Chemistry, Physics, Maths., Languages, History. Bowyer, 10 Marlborough Road, Dartford.

DRUGS AND CHEMICALS.

20 gross., 27s. per gross; earriage paid; cash with order. T. Halliday, 288 Roehdale Road, Oldham.

1 OZ. Strychnine, 7s.; Berberin Sulph., 8 dram; 1 oz. Creosotal; 2 oz. Piperazine; 9 oz. Lycopodium; 4 oz. Gnaiacol; 1 lb. Formic Acid, 50 per cent.; 7 drs. Indigo. Offers wanted. Sharman, Northwood.

MISCELLANEOUS.

SALTER Typewriter, No. 6, as new, £12. "M.," 41 Newcomen Street, S.E. 1. FOR Sale, Rubber Pillow, 24 × 15, 12s. E. Baker, 73 Farringdon, Street, F.C. 4

don Street, E.C. 4.

BBER Water Bed, new, 76 × 36. Hemmings, Chemist's Stock Buyer, 2 Scylla Road, Peckham, S.E. GROSS Collapsible Tubes (lead); 3 in, by \(\frac{1}{2} \) in; suitable for adhesive cement, etc. What offers?

adhesive cement, etc. What offers? Wolverson's, Beeston, Notts.

55 in. Mahogany Turned and Fluted Shaft, with carved cap Carboy Stand; fig. 229/W., Maw's; good condition; £2. Gamlen, Chemist, West Hartlepool.

ASSORTED Laboratory Glass, 5 Retorts, Flasks, 3 dozen Reagent Bottles, Test Tubes, \(\frac{1}{2}\) dozen Porcelain Dishes, etc. View, 121 Sutton Court, Chiswick.

MIXER, oak, gunmetal blades, 2 ft. 1 in. deep, 1 ft. 10 in. diam., hand, adaptable power, £16; Robert's Bottle Filling Machine, No. 1, nearly new, £18. Jackson's, Pownall Square, Liverpool.

WANTED.

APENTA (few), Saxin, Benger's Food. Sharman. Northwood.
1 or 2 1-oz. tins Novatophan. Bingham, Chemist, Bournemouth.
FEW gross 1 to 1 ounce Flat Tins or Wood Turned Boxes. Apply
268/9, Office of this Paper.
FERRI Succinas. Can any Pharmacist supply? R. J. Rutherford,
M.P.S., Newbiggin-by-Sea.
THIOCOL Tabs. (5 gr.), stamped; Protargol, Argyrol, Travelling
Bag. McMullan, Chemists, Larne.
STILLS; thirty to one hundred gallons capacity. Price and
particulars to 264/14, Office of this Paper.
STEAM Jacketed Copper Pan; 30 gallons capacity. Particulars
to W. B. Cartwright, Ltd.. Rawdon, near Leeds.
GLYCERINE; any quantity from 1 lb. upwards. Pro-forma invoice to Jesse Williams, Ltd., 32 Market Place, Dewshury.
WICKERED Glass Rose Water or similar Carbovs; about 5 gallons
capacity; must be clean. Particulars to 263/6, Office of this
Paper.
SUGAR, of Milk (any quantity). State quality and price for cash

of Milk (any quantity). State quality and price for eash inst delivery, James, 13 Crownhill Road, Harlesden, against N.W

Against delivery, Joines, 15 Crownin Acad, Harlessea, N.W. 10.

GLASS Percolators; 1 gall, and 2 galls, conical, make and price. Also B.P. Soft Soap. Quantity and price to J. R. Cave, Ltd., Chemists, Southport.

REFLEX Camera f4.5 Lens: exchange O Graphic Kodak, Cooke, f5.8; also Films and Cash and Balance; all new this season, Apply 263/32, Office of this Paper.

ONE-Tablet-making Machine; preference American. Write particulars, 157/9, Office of this Paper.

PANOPEPTON wanted. State price and quantity to Walpole Drug Stores, 135 St. Mary's Street, Southampton.

OINTMENT MILL in good condition. Send details and price to Chemist, 133 St. Paul's Avenue, Willesden, N.W. 2.

WANTED, Glycerine in any quantity; state quantity and price.

Chemist, 13a St. Paul's Avenue, Willesden, N.W. 2.

WANTED, Glycerine in any quantity; state quantity and price.
142/49, Office of this Paper.

TO buy, 1.000 or 2,000 gross No. 2 and No. 3 Screw-capped Tablet Bottles. Apply 148/53, Office of this Paper.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

TO purchase, 200 or 300 gross 1 oz. and 2 oz. Pomades, Jars, with or without screw cap. Quote W. B. Cartwright, Ltd., Rawdon, near Leeds.

SPECTACLE LENSES, Gold-filled Spectacle and Eyeglass Frames, in any quantity. Particulars and prices to Bishop & Vincent, 460 Holloway Road, N. 7.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.

BIG prices paid for Stokes' or Colton Tablet Machines; Pill Machinery also wanted. Particulars to 78/58, Office of this Paper.

JOB line Tins wanted, suitable for Boot Polish, etc. We are also buyers of Tin Plates, printed or plain. Also Cartons for same. "Brytenup" Polish Works, Marsh Lane, Preston.

JAM or Marmalade; send prices and kind to E. Matthews, Medical Hall, Royston, Herts. Also Toilet Creams, Soaps and Perfumes; Golden Syrup; salvage stock not objected to if in good condition.

MALT Vinegar Honey Aponts Water Scame and Minard Oile.

fumes; Goiden Strup, Skring, Skringgood condition.

LT Vinegar, Honey, Apenta Water, Scsame and Mineral Oils, Collapsible Tubes; Wool. Hair, and Straw Soles; Carriage Candles, Night Lights, Tumblers, and Lamp Glasses; surplus stock of Winter Pastilles and Patent Medicines, also novelties for window display. Williams, Pharmacist, 14 Penn Road, Wolverhampton, Staffs.

"HOLMIER" BRAND COMPOUND SACCHARIN TABLETS.

One is equal to a teaspoonful of sugar.

Made with American 550 Saccharin. 16/- per 1,000 Reg. post paid.

Cash with order. Immediate Delivery. MEYER, Manufacturing Chemists, BIRMINGHAM.

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½ grain 330 in 1. Made from finest Monsanto (American) 550 Saccharin, and guaranteed absolutely pure and soluble.

5,000 @ **21/6** per 1,000 | 25,000 @ **20/6** per 1,000 | 100,000 @ **20/-** ,, 10,000 @ 21/-

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We were the original advertisers of this line twelve months ago, and have not changed our quality. We have hundreds of satisfied customers.
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£7 7 6 2 lb. £7 5 lb.

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1/4

Minimum Minimum Retail Wholesaid Price: Price.

Buffham's Resinol Oint., u.s.

CORRECTION NOTE.—In last week's issue the Minimum Wholesale Price for 3-oz. size. u.s., was accidentally given as 38/-; it should have been 43/-.

9d. Chanticleer Voice,

&c., Pastilles 9d. 5/6
,, ,, ,, 1/4 10/-**Glycolactophos** 2/6 24/,, 4/6 42/-

,, 4/6 42/-,, 8/6 80/-

, 16/6 158/-

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Hair Lotion 8d. 6/-

1/2 -,, ,, - 1/2 10/6

10 $\frac{1}{2}$ d. Saunders' Plain Tea Tablets $10\frac{1}{2}$ d. $\begin{cases} 8/3_{dz} \\ 96/-_{gr} \end{cases}$

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SACCHARIN TABLETS

 $(\frac{1}{2} gr., 330 in I).$

Neatest and Sweetest

21/- per 1000, or £7 8s. per lb.

Special prices for larger quantities.

Cash with Order. Carriage Paid.
Prompt Delivery.

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 $(\frac{1}{2} \text{ gr. } 330 \text{ in } 1)$

I lb. - - 7 5 0 per lb.
2,, - - 7 4 6,,
5,, - - 7 4 0,,
(Average over 7000 to pound.)

SCREW | 100s at 27/- per doz. CAP | 200s ,, 52/- ,, ,, ,

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Same day as order received.

Being MAKERS and not merely FACTORS of SACCHARIN TABLETS, we can fully guarantee the QUALITY. Our Tablets are now supplied direct and not through agents.

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Guaranteed absolutely pure and soluble. $\frac{1}{3}$ grain 330 in 1 grain. Made from finest American 550 Saccharin.

10,000 lots at **16 6** per 1,000 | Cash with order. 25,000 | , 16/3 | , | Immediate delivery. 100,000 | , 16/~ | , | Registered post paid.

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COTTON WOOL 2/2 per lb.

in 1 cwt. lots; 56 lb. at 2/2½. Carriage paid. Cash with order. Wrappers 3/6 extra, and are returnable. The wool is white, absorbent, and interleaved. Sample for stamp. Special price for bigger lots. Super quality at reasonable prices.

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Guaranteed ¼ grain 330 Monsanto Saccharin.
7.000 Tablets weigh one pound.

lb. ... @ 15/6 per 1000

10 ,, ,, 15/3 ,, 25 ,, ,, 14/9 ,,

Price of ½ gr. on application.

TERMS: Cash with order. Prompt delivery.

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Crystal Soda. This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

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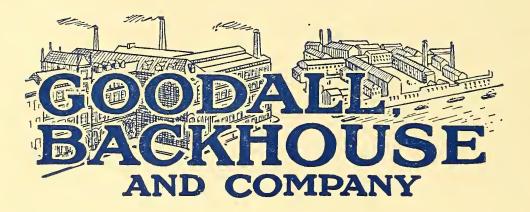
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